

The better solution.



PRODUCT CATALOGUE

SWIMMING POOL | WELLNESS



Our company's philosophy is to develop better solutions through dialogue and constructive discussion. The basis for the design of our measuring, controlling and dosing systems for swimming pools, wellness facilities and drinking/waste water treatment is our extensive know-how as well as a constant exchange of ideas with our partners. Our willingness to embrace change and our flexibility allow us to quickly react to constantly changing markets and customers' demands. This is the main reason for our continuous growth, our lasting partnerships and our worldwide success!

We export 75 % of all of our products. As a privately-owned and managed company we are able to provide our customers with superior quality products and support from well-qualified and motivated staff. WDT's team is the foundation of our success. Due to on-going professional development programmes and training, our 55 employees are always up-to-date with the latest technical developments. That's why they are able to provide solutions for your challenging projects. We work for a common positive future and we do this in a responsible and respectful way!

WATCH OUR CORPORATE VIDEO.

Scan the QR code or search for „wdt corporate video“ on youtube.

WDT Werner Dosiertechnik stands for:

- Comprehensive know-how
- Professional consulting
- Service- and solution-orientation
- Exclusively educated and qualified employees
- Continuous development
- More than 30 years experience



GERMAN QUALITY since 1986

Our high quality standard is the guarantee for the trust and satisfaction of our customers.

WDT products offer:

- Highest functionality and quality level
- Sophisticated technology
- Exclusively components from German and European manufacturers
- Individually tested reliability

We produce to 100% at our factory in Wertingen, Bavaria.

CERTIFICATION

We have been certified according to DIN ISO 9001 since 2008.

Our quality management system is:

- The foundation for our sustainable product and service quality
- The guideline for our daily work
- The basis of the continuous improvement of our processes
- A fundamental part of our corporate- and error-culture





DEVELOPMENT

Whether standard product or customised solution, our systems are developed from the first concept to the programming of the control software exclusively in our company.

Our developments are:

- The prerequisite for a common, successful future
- Customised, market driven solutions through the combination of your demands and our know-how and experiences
- The fundament for the best water quality and the well-being of guests in swimming pools and wellness oases

SERVICE

Our whole team works with the fullest conviction, engagement and passion for you during all stages of our cooperation.

WDT service supports:

- During planning, installation and maintenance
- Quick and reliable
- Professional and comprehensive
- Our cooperative partnership

DIGITALISATION

The digitalisation has changed our living and working conditions in the same way as the industrial revolution in the 19th century.

Digitalisation implies the following challenges for WDT:

- Communication of our products with other systems
- Optimisation of our digital infrastructure
- Continuous education and human resources development
- Openness and willingness for change
- Reorientation of our working methods and processes





DRINKING AND WASTE WATER



The WDT product division drinking and waste water

One challenge for the future of mankind is the economical and efficient handling of water. The careful treatment of this short and valuable natural resource is becoming more and more important in the drinking and waste water industry. The effective disinfection and cleaning of the water plays an important role in this sector.

Using our experience from dosing of granulate and powder for swimming pools, WDT developed and manufactured systems for the dosing of powdered carbon for the waste water treatment already in the mid-nineties. Nowadays we are able to offer economical and sophisticated dosing techniques for nearly every size of drinking and waste water plant in the municipal or industrial sector.



Disinfection with chlorine granulate

- Dosing of chlorine granulate for the water disinfection



Powder dosing

- Dosing of activated carbon powder for the elimination of organic impurities from the raw water
- Dosing of lime powder for the neutralisation of waste water
- Dust-free dosing of diatomite for precoated filters



Dosing pumps

- Dosing of flocculant

You find details of our products for drinking and waste water treatment on our website.

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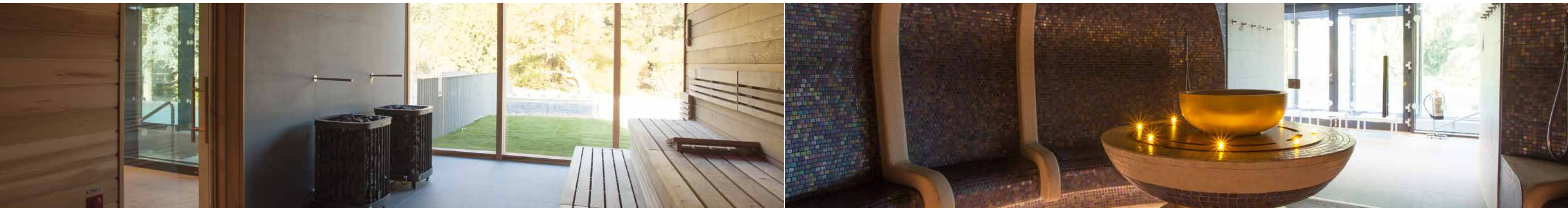
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SWIMMING POOL

The better solution.

WDT's development of technical equipment for swimming pools goes back to its founding days. We have focused on autocontrol and dosing systems for the water disinfection in the context of the water treatment.

We put special emphasis on:

- Perfect product quality
- A wide and sophisticated product range
- Tailor made solutions for many applications
- Expert knowledge and long-time experience in the swimming pool water treatment

From our point of view it is a necessary core competence to understand the swimming pool and its associated technical systems as a total, to be able to transfer this know-how to our partners.



12 Dosing of Calcium Hypochlorite & Dichlor GRANUDOS



28 Dosing of Activated Carbon Powder PAKDOS



32 Autocontrol systems POOLKLAR / CPR TOUCH



40 Dosing pumps & accessories UNODOS / FLOCIDOS



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Dosing of Calcium Hypochlorite & Dichlor with GRANUDOS

Calcium hypochlorite is one of four disinfection chemicals which is DIN 19643-1 certified. It has a relatively lower level of danger compared to chlorine gas. With the use of calcium hypochlorite you can easily comply with the threshold values of the chlorate and chlorite contents of swimming pool water.

GRANUDOS is characterised by the following key features:

- Clean and residue-free chlorine solution, no blockage of the dosing pipes
- Easy integration into existing water circulations
- Quick and easy installation
- Low maintenance efforts
- Adaption of nearly all chlorine drums in trade
- If necessary with integrated autocontrol system, one-stop service
- Tested safety

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- 13 For single pools
- 18 For multiple pool complexes
- 22 With integrated autocontrol systems
- 26 Accessories

GRANUDOS 10-S4

Dosing station for calcium hypochlorite granulate and acid for the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from integrated hopper 5 kg. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored.

SCOPE OF DELIVERY

Housing: Solid one part rotational sintered PE shape containing all functional parts.

Chlorine dosing: Dosing hopper for chlorine granulate for max. 5 kg, dosing motor, dosing screw, knocker to support the dosing.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Microprocessor controller S4: Signalisation and identification of faults by 5 LED. Non-volt omnibus fault message. Programme selector for service and test programmes. Adjustment of dosing performances chlorine and acid by 2 rotary knobs. External dosing control with controllers for free chlorine and pH-value with non-volt contact or 230 V/AC impulse length controlled. Relay system to assure dosing of only chlorine or acid or none. Switch-off of the dosing at malfunction.



TECHNICAL DATA

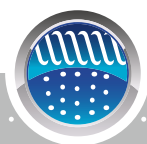
Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x D 50 cm x H 80 cm
Weight	app. 35 kg
Dosing performance chlorine	0,1 - 2 kg/h
Dosing performance acid	1 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES / OPTIONS

- Adapter for bigger dosing hopper
- Adapter for different 10 kg buckets
- Optional for the dosing of Dichlor
- Autocontrol system



GRANUDOS 10-TOUCH

Dosing station for calcium hypochlorite granulate and acid for the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from integrated hopper 5 kg. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored.

Operation and visualisation of all functions by user-friendly 7" graphical Touch Display.

Optional function: In parallel to the chlorine supply of the main pool, a buffer tank can be filled with chlorine solution with an adjustable concentration to supply further pools with chlorine via dosing pumps.

SCOPE OF DELIVERY

Housing: Solid one part rotational sintered PE shape containing all functional parts.

Chlorine dosing: Dosing hopper for chlorine granulate for 5 kg, dosing motor, dosing screw, knocker to support the dosing.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current status of the unit and the operation parameters
- Simple and clearly arranged user guidance of the screen
- Faults and alarms are illustrated by self-explaining icons
- With integrated meter for chlorine consumption
- Integrated test programmes for all functions
- Monitoring of all control components of the system
- Operation languages: German, English and French
- Event storage (data logging)

Interface: USB for data export

Remote indication via browser driven devices (e.g. tablet or smartphone)

- Indication of the current operational states, errors and alarms



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 80 cm x D 60 cm x H 110 cm
Weight	app. 35 kg
Dosing performance oxygene granulate	0,1 - 2 kg/h
Dosing performance algicide (optional)	1 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES / OPTIONS

- Adapter for bigger dosing hopper 10 kg or 15 kg
- Adapter for different 10 kg buckets
- Optional for the dosing of Dichlor
- Autocontrol system
- Programmed for GRANUDOS-PB function for operation with buffer tank

GRANUDOS 45/100-S4

Dosing station for calcium hypochlorite granulate and acid for the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from the delivery drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier, steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Microprocessor controller S4: In housing IP 54. Signalisation and identification of faults by 5 LED. Non-volt omnibus fault message. Programme selector for service and test programmes. Adjustment of dosing performances chlorine and acid by 2 rotary knobs. External dosing control with controllers for free chlorine and pH-value with non-volt contact or 230 V/AC impulse length controlled. Relay system to assure dosing of only chlorine or acid or none. Switch-off of the dosing at malfunction.

The GRANUDOS is generally available for nearly all chemical buckets and drums in trade. Please mention the demanded drum if you will place an order for GRANUDOS 45 or GRANUDOS 100!



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x D 70 cm x H 140 cm
Weight	app. 50 kg
Dosing performance chlorine	GR 45: 0,1 - 2 kg/h GR 100: 0,2 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

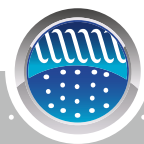
TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES / OPTIONS

- Drum lifter for chlorine drums
- Container GR 150 for very high chlorine demand
- Optional for the dosing of Dichlor
- Autocontrol system
- Dust extraction for dusty chlorine granulate material





GRANUDOS 45/100-TOUCH

Dosing station for calcium hypochlorite granulate and acid for the disinfection and the pH-regulation of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from the delivery drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored. Operation and visualisation of all functions by user-friendly 7" graphical Touch Display.

Optional function: In parallel to the chlorine supply of the main pool, a buffer tank can be filled with chlorine solution with an adjustable concentration to supply further pools with chlorine via dosing pumps.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier, steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current status of the unit and the operation parameters
- Simple and clearly arranged user guidance of the screen
- Faults and alarms are illustrated by self-explaining icons
- With integrated meter for chlorine consumption
- Integrated test programmes for all functions
- Monitoring of all control components of the system
- Operation languages: German, English and French
- Event storage (data logging)

Interface: USB for data export

Remote indication via browser driven devices (e.g. tablet or smartphone)

- Indication of the current operational states, errors and alarms



The GRANUDOS is generally available for nearly all chemical buckets and drums in trade. Please mention the demanded drum if you will place an order for GRANUDOS 45 or GRANUDOS 100!

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x D 80 cm x H 150 cm
Weight	app. 50 kg
Dosing performance oxygene granulate	GR45: 0,1 - 2 kg/h GR100: 0,2 - 4 kg/h
Dosing performance algicide (optional)	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES / OPTIONS

- Drum lifter for chlorine drums
- Container GR 150 for very high chlorine demand
- Optional for the dosing of Dichlor
- Autocontrol System
- Dust extraction for dusty chlorine granulate material
- Programmed for GRANUDOS-PB function for operation with buffer tank

HYPODOS 200/300

Dissolving system for calcium hypochlorite granulate or other granulated chemicals.

FUNCTION DESCRIPTION

The dissolving water that is coming from the filter is flowing through the Turbodissolver in which the chemical is filled-in. Nozzles at the Turbodissolver are creating a high turbulence at the floor of the unit and the chemical is dissolved without any further handling or a stirrer. The partly slurry solution is flowing over into the dosing tank. After the lapse of the filling procedure the solution has a constant concentration. The swimming filter on the surface is separating particles and creates a clean dosing solution for a reliable operation.

SCOPE OF DELIVERY

- Dosing tank PE 200 or 300 l
- Turbodissolver
- Empty switch with 3 m cable
- Suction tube PVC 4 x 1 with non-return valve
- Swimming filter



TECHNICAL DATA

Water supply	DN15
Diameter 200 / 300	56 cm / 65 cm
Height 200 / 300	105 cm / 115 cm
Empty weight 200 / 300	15 kg / 20 kg

TO BE PROVIDED BY THE BUILDER

- Supply tubing from the filter cycle

ACCESSORIES / OPTIONS

- Dosing pump
- Injection valve
- Autocontrol system



GRANUDOS 45/100-PLUS V70-TOUCH

System for the production of a chlorine solution from dry chlorine to disinfect multiple pool complexes.

FUNCTION DESCRIPTION

The unit doses dry chlorine directly from the delivery drum to produce a pH-neutral chlorine solution (max. 3,5 g Cl/l) that is conveyed into a buffer tank of the feed system. Chlorine and acid, which is necessary for the neutralisation, are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the buffer tank.

Operation and visualisation of all functions by user-friendly 7" graphical Touch Display.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for reserve- and empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, isolation valve, flushing tank, booster pump app. 1000 l/h, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Controller with 7" Touch-Display: Easy and clear user guidance. Graphical indication of the operating status. Control of all monitoring elements of the unit and error memory. Indication of fault reports and values in clear text. Easy setting of the demanded operation parameters. This controller enables the user to register and analyse all operation data.

Interface: USB for data export

Remote indication via browser driven devices (e.g. tablet or smartphone)

The GRANUDOS is generally available for nearly all chemical buckets and drums in trade. Please mention the demanded drum if you will place an order for GRANUDOS 45 or GRANUDOS 100!



Photo with dust extraction for dusty chlorine granulate material.

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to the feed system	DN20
Measures	W 60 cm x D 70 cm x H 140 cm
Weight	app. 50 kg
Dosing performance chlorine	GR 45-Plus : 0,1 - 2 kg/h GR 100-Plus: 0,2 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max. to the feed system	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the feed system
- Tubing of the overflow to the drain

ACCESSORIES / OPTIONS

- Feed system GRANUDOS-Plus
- Drum lifter for chlorine drums
- Container GR 150 for high chlorine demand
- Dust extraction for dusty chlorine granulate material

FEED SYSTEM GRANUDOS-PLUS

Feed system for the distribution of the pH-neutral chlorine solution that is produced by the GRANUDOS-Plus to the different pool cycles by dosing lines. The dosing of the chlorine solution to the pools is controlled by external controllers.

FUNCTION DESCRIPTION

A solenoid centrifugal pump with PVDF head is generating a constant pre-pressure for the dosing lines for the single pools through a pressure retention valve. If a control valve of a dosing line is opened the same flow rate is always realised, no matter how many dosing lines are actuated.

SCOPE OF DELIVERY

Buffer tank

- Buffer tank PE d 650 x h 1110 mm - 300 l with screw lid
- 2 level switches min/max to control the filling
- 2 level switches min/max for alarm
- Activated carbon filter for the dechlorination of the vent air during the filling

Safety tub

- PP-tub 680 x 1150 x 430 mm with carrier plate for booster pump
- 1 level switch for overflow monitoring
- 2 handles to carry the system

Feed system

- Solenoid centrifugal pump 230 VAC - 0,55 kW - 1000 l/h at 1,2 bar (optional 400 Volt - 1,1 kW - 2000 l/h at 1,6 bar) fitted on carrier plate of the safety tub with suction pipe d32 to the buffer tank
- Recirculation pipe d 25 with pressure retention valve PVC/PTFE. Non return valve PVC/FPM d 25. Pressure gauge 0 - 4 bar with gauge guard PVC/PTFE. Aeration/emptying connection d 20. Pressure connection to the distributor of the dosing lines
- Connector box for level switches and pump with safety relay system to close all chlorine control valves in the event of malfunction
- Mounting plate 500 x 1300 mm for up to 5 dosing lines GR (more on demand)

Dosing lines (quantity complies with the number of pools)

- Flow meters 5 - 50 l/h to 60 - 600 l/h (as demanded)
- Solenoid control valves Bürkert, resistant against chlorine solution up to 5 g/l
- Separation valve PVC d 20
- Membrane valve PVC d 20 to adjust the flow of every dosing line



TECHNICAL DATA

Electrical supply MPN130/150	230 V/AC / 400 V/AC
Power supply MPN130/150	0,55 kW/1,1 kW
Supply from GRANUDOS-Plus	DN20
Outlet to the injection points	DN15
Measures	W 120 cm x D 80 cm x H 180 cm
Weight	app. 70 kg
Back-pressure max. MPN130/150	1,0 bar/1,6 bar

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing from GRANUDOS-Plus and tubing to the injection points
- Autocontrol systems to control the dosing lines

ACCESSORIES / OPTIONS

- pH-control: Monitoring of the pH-value of the chlorine solution, switches-off the GRANUDOS if the demanded pH-range in the buffer tank is not hold
- Probe holder in suction tubing of booster pump
 - pH-probe with plastic shaft and double diaphragm
 - pH-measuring converter with non-volt output for fault indication
 - Set point and alarm hysteresis programmable
 - Completely linked to the GRANUDOS-Plus

GRANUDOS 45/100-TOUCH-PB

Dosing station for calcium hypochlorite granulate and acid for the disinfection and the pH-regulation of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from the delivery drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system and are dissolved completely. Then the chlorine solution is conveyed by a venturi nozzle to the pool water. Dosing manually or linked to an external control system. All functions are permanently monitored. Operation and visualisation of all functions by user-friendly 7" graphical Touch Display. In parallel to this chlorine supply of the main pool a buffer tank is filled with chlorine solution with an adjustable concentration.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier, steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current status of the unit and the operation parameters
- Simple and clearly arranged user guidance of the screen
- Faults and alarms are illustrated by self-explaining icons
- With integrated meter for chlorine consumption
- Integrated test programmes for all functions
- Monitoring of all control components of the system
- Operation languages: German, English and French
- Event storage (data logging)

Interface: USB for data export

Remote indication via browser driven devices (e.g. tablet or smartphone)

- Indication of the current operational states, errors and alarms

The GRANUDOS is generally available for nearly all chemical buckets and drums in trade. Please mention the demanded drum if you will place an order for GRANUDOS 45 or GRANUDOS 100!



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x D 80 cm x H 150 cm
Weight	app. 50 kg
Dosing performance chlorine	GR45: 0,1 - 2 kg/h GR100: 0,2 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing, tubing to the injection point, tubing to the buffer tank
- Tubing of the overflow to the drain
- Autocontrol system to control the dosing of the chemicals

ACCESSORIES / OPTIONS

- Drum lifter for chlorine drums
- Container GR 150 for very high chlorine demand
- Autocontrol System
- Dust extraction for the dusty chlorine granulate material
- Buffer tank für GRANUDOS-PB function

BUFFER TANK GRANUDOS-PB

Buffer tank for the storage of the chlorine solution that is produced by the GRANUDOS-PB to supply additional small pools. The dosing of the chlorine solution is controlled by external controllers.

FUNCTION DESCRIPTION

The filling of the buffer tank by the GRANUDOS-PB is activated, when the empty switch of the tank sends a signal to the GRANUDOS-PB. The pH-neutral chlorine solution from the buffer tank is conveyed to the injection point via dosing pumps. The pH of the pools that are supplied additionally with chlorine has to be regulated separately.

SCOPE OF DELIVERY

Buffer tank GRANUDOS-PB 300 l

- PE-tank D 650 x H 1110 mm - 300 l with screw lid
- 3 x level switch min/max for the control of the filling
- 2 x level switch min/max for alarm function
- Activated carbon filter for dechlorination of vent air during the filling

Switch over unit:

- 2 control valves DN20 (electrical or pneumatical)

TO BE PROVIDED BY THE BUILDER

- Supply tubing from GRANUDOS

ACCESSORIES / OPTIONS

- Safety tub round, 320 l
- Dosing pump
- Injection valve





GRANUDOS 10-CPR TOUCH XL

Dosing station for calcium hypochlorite, acid and flocculant completely with autocontrol system CPR Touch XL for free chlorine, pH-value, redox and temperature. For the disinfection and flocculation of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from integrated hopper. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the pool water. The dosing of the chemicals is controlled directly by the integrated autocontrol system. The booster pump of the GRANUDOS works also as metering water pump. The metering water is returned into the cycle via the dissolving system. The autocontrol system and the peristaltic pumps for flocculant and acid are integrated well accessible under a transparent cover at the front of the unit.

SCOPE OF DELIVERY

Housing with retention tub: Solid one part rotational sintered PE shape containing all functional parts.

Chlorine dosing: Dosing hopper for chlorine granulate for 5 kg, dosing motor, dosing screw, knocker to support the dosing.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Flocculant dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 1/2".

Dissolving system: Pre-filter d75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level switch min/max flushing tank.

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current data and status of the unit
- Faults and alarms are illustrated by self-explaining icons
- All control parameters are adjustable to ensure optimal pool conditions
- Integrated test programmes for all functions
- Proportional control characteristic to ensure compliance with the selected set points
- Start-up automatic with pH preference dosing
- Input for external release, shock chlorination and ECO mode
- Alarm relay with non-volt changeover contact
- Operation languages: German and English
- Measuring value- and event storage (data logging)

Interface: Modbus TCP, USB for data export

Remote indication & access via browser driven devices (e.g. tablet or smartphone – terminal device not incl.)



- Indication of the measuring values, current operational states, errors and alarms
 - Adjustment of the control and operation parameters
- Measuring cell**
- Compact acrylic glass block to take the electrodes incl. flow regulator. Pressure resistant design for measuring water recirculation
 - pH-electrode with high reliability reference system
 - Redox electrode with large and self-cleaning platinum round plate
 - Free chlorine electrode consisting of: large and self-cleaning surface round gold plate and counter electrode with reference system Ag/AgCl
 - Temperature sensor for temperature measurement
 - Sample water valve

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN25
Water outlet to injection point	DN20
Measures	W 70 cm x D 50 cm x H 125 cm
Weight	app. 40 kg
Dosing performance chlorine	0,6 - 2 kg/h
Dosing performance acid	1 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Overflow/drain in the plants room

ACCESSORIES / OPTIONS

- Adapter for bigger dosing hopper
- Adapter for different 10 kg buckets

GRANUDOS 45/100-CPR TOUCH XL

Dosing station for calcium hypochlorite and acid completely with autocontrol system CPR Touch XL for free chlorine, pH-value, redox and temperature. For the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from the delivery drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the pool water. The dosing of the chemicals is controlled directly by the integrated autocontrol system. The booster pump of the GRANUDOS works also as metering water pump. The metering water is returned into the cycle via the dissolving system. The autocontrol system is mounted well accessible at the unit.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Control techniques:

- Coloured 7" Touch-Graphic display to indicate the current data and status of the unit
- Faults and alarms are illustrated by self-explaining icons
- All control parameters are adjustable to ensure optimal pool conditions
- Integrated test programmes for all functions
- Proportional control characteristic to ensure compliance with the selected set points
- Start-up automatic with pH preference dosing
- Input for external release, shock chlorination and ECO mode
- Alarm relay with non-volt changeover contact
- Operation languages: German and English
- Measuring value- and event storage (data logging)

Interface: Modbus TCP, USB for data export

Remote indication & access via browser driven devices (e.g. tablet or smartphone – terminal device not incl.)

- Indication of the measuring values, current operational states, errors and alarms
- Adjustment of the control and operation parameters



Measuring cell

- Compact acrylic glass block to take the electrodes incl. flow regulator. Pressure resistant design for measuring water recirculation
- pH-electrode with high reliability reference system
- Redox electrode with large and self-cleaning platinum round plate
- Free chlorine electrode consisting of: large and self-cleaning surface round gold plate and counter electrode with reference system Ag/AgCl
- Temperature sensor for temperature measurement
- Sample water valve

TECHNICAL DATA

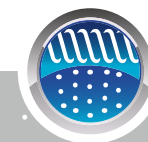
Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN25
Water outlet to injection point	DN20
Measures	W 60 cm x D 70 cm x H 180 cm
Weight	app. 55 kg
Dosing performance chlorine	GR 45: 0,1 - 2 kg/h GR-100: 0,4 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Overflow/drain in the plants room

ACCESSORIES / OPTIONS

- Drum lifter for chlorine drums
- Container GR 150 for high chlorine demand
- Dust extraction for dusty chlorine granulate material
- Flocculant pump





GRANUDOS 15-PR

Dosing station for calcium hypochlorite and acid completely with autocontrol system POOL-PR for pH and redox. For the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from integrated hopper 15 kg. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the pool water. The autocontrol system POOL-PR is pre-installed. The electrodes are integrated in the flushing tank of the dissolving system. An easy and reliable operation is guaranteed.

SCOPE OF DELIVERY

Housing: Solid one part rotational sintered PE shape containing all functional parts.

Chlorine dosing: Dosing hopper for chlorine granulate for max. 15 kg, dosing motor, dosing screw, knocker to support the dosing.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 800 l/h at 0,8 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank. Carrier for electrodes.

Control techniques:

- Programme switch with status LED for easy operation of the operation-, test- and calibration programmes
- LED's for the indication of measuring values and faults
- Step switch for the adjustment of the set-point values
- Adjustment of the dosing performances to the specific pool by DIP switches
- Start-up automatic with pH preference dosing
- Level control of the canisters
- Alarm relay with non-volt changeover contact
- pH- and redox electrode with high reliability reference system Ag/AgCl



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,2 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 40 cm x D 40 cm x H 125 cm
Weight	app. 25 kg
Dosing performance chlorine	0,1 - 2 kg/h
Dosing performance acid	1 l/h
Pre-pressure min.	0,5 bar
Back-pressure max.	0,8 bar

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

GRANUDOS 45/100-PR

Dosing station for calcium hypochlorite and acid completely with autocontrol system POOL-PR for pH and redox. For the disinfection of swimming pool water.

FUNCTION DESCRIPTION

Chlorine dosing directly from the delivery drum. Acid is dosed into the system directly from the canister to correct the pH and to avoid scaling. Chlorine and acid are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the pool water. The autocontrol system POOL-PR is pre-installed. The electrodes are integrated in the flushing tank of the dissolving system. An easy and reliable operation is guaranteed.

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Chlorine dosing: Dosing hopper to be screwed on the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum.

Acid dosing: Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve 3/8" in the dissolving system.

Dissolving system: Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank. Carrier for electrodes.

Control techniques:

- Programme switch with status LED for easy operation of the operation-, test- and calibration programmes
- LED's for the indication of measuring values and faults
- Step switch for the adjustment of the set-point values
- Adjustment of the dosing performances to the specific pool by DIP switches
- Start-up automatic with pH preference dosing
- Level control of the canisters
- Alarm relay with non-volt changeover contact
- pH- and redox electrode with high reliability reference system Ag/AgCl



The GRANUDOS is generally available for nearly all chemical buckets and drums in trade. Please mention the demanded drum if you will place an order for GRANUDOS 45 or GRANUDOS 100!

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,39 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x D 70 cm x H 140 cm
Weight	app. 50 kg
Dosing performance chlorine	GR 45: 0,1 - 2 kg/h GR 100: 0,2 - 4 kg/h
Dosing performance acid	3 l/h
Pre-pressure min.	0,2 bar
Back-pressure max.	1,2 bar (optional 1,8 bar)

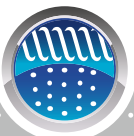
TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

ACCESSORIES / OPTIONS

- Drum lifter for chlorine drums
- Container GR 150 for high chlorine demand
- Dust extraction for dusty chlorine granulate material





DRUM LIFTING TROLLEY



FUNCTION DESCRIPTION

Drum lifting trolley for the transport of the chlorine drums from the storage area to the GRANUDOS. Here the drum is brought to the height of the drum carrier and pushed onto the rotating drum carrier of the GRANUDOS.

TECHNICAL DATA

Measures	W 50 cm x L 110 cm x H 140 cm
Weight	38 kg
Lifting force	max. 120 kg
Vertical lift	1 meter

DRUM LIFTER



FUNCTION DESCRIPTION

Drum lifting device for the lifting of the chlorine drums onto the GRANUDOS by a manual lifting appliance. The drum lifter is fixed to the vertical support of the GRANUDOS. The system can easily be retro-fitted at existing machines and enables the operator to handle the chlorine drums effortless.

SCOPE OF DELIVERY

- Installation support for the fixation to the GRANUDOS
- Guide rail
- Trolley
- Manual lifting appliance with drum gear
- Fixation material

TECHNICAL DATA

Measures (without GRANUDOS)	D 115 cm x H 145 cm
Weight	24 kg

CONTAINER GR 150

FUNCTION DESCRIPTION

The Container GR 150 has especially been developed for applications with a high chemical consumption. The 90 kg storage system can be used in combination with all GRANUDOS 45/100 models.

SCOPE OF DELIVERY

Storage container: Closed dust-tight container is made of PE with welded support with adjustable legs and connecting flange for the assembling to the trunnion of the GRANUDOS 45/100. The transparent container allows to control the filling level visually in addition to the empty switch. For maintenance reasons a gate valve is installed at the lower container cone. If a GRANUDOS should be upgraded to this system, the existing dosing unit can be used.

Drum support: Turnable drum support for the use with nearly all drums common in trade. The filling hopper has to be screwed onto the drum that will be fastened at the drum support at the floor, then lifted with the lifting device and rotated. Above the container the drum will be lowered. The filling hose will be inserted into the opening of the container. After opening the filling hopper by a slide valve, the granulated chemical will flow dust-free down into the storage container.

Electric crane with trolley: Lifting power 200 kg. The lifting device will be used for lifting the drum support. The electric crane will be operated by a button.

TO BE PROVIDED BY THE BUILDER

- Necessary room height: min. 3 m
- Necessary floor space required incl. working area crane: min. 1 m x 2 m



Photo with dust extraction for dusty chlorine granulate material.





Dosing of Activated Carbon Powder with PAKDOS

DIN 19643 guidelines were established to reduce chloramines and bounded chlorine in the swimming pool water and to ensure healthy conditions in swimming pools. Following this standard, WDT has developed a practical system for the dosing of activated carbon powder to solve this problem.

The PAKDOS system is characterised by the following key features:

- Dosing of economically priced, dry carbon powder directly from the carbon drum - or -
- Dosing of suspension, made of dust-free, acidulated carbon powder
- Generally useful for all filter types and filter sizes
- Clean dosing of activated carbon powder
- Easy integration into the filter cycle
- Reliable in operation and easy to handle

Page:

- 29 Up to max. 100 m³/h circulation rate per cycle - PAKDOS MINI
- 30 From 100 m³/h circulation rate per cycle - PAKDOS 60

PAKDOS MINI-100-200-300-500

Dosing system for the dosing of dust free and acidulated powdered activated carbon with suspension preparing unit for one or several filter cycles. For the elimination of organic impurities from the water such as combined chlorine.

FUNCTION DESCRIPTION

Suspension preparing unit with 100 l, 200 l, 300 l or 500 l tank and agitator. Dosing performance max. 100 respectively 255 g/h per dosing line at a suspension concentration of 3%. Injection before the filter pump (pressureless).

SCOPE OF DELIVERY

Suspension preparing unit:

- PE-tank 100 l, 200 l, 300 l or 500 l (according to consumption)
- Agitator 60 W (slow running)
- Suction tube PE 4 x 1
- Filling manually by ball valve d25
- Overflow and emptying connection
- Empty detection by pressure switch / optional by capacitive sensor
- Fault remote signal with non-volt changeover contact

Dosing line PM:

For dosing the powdered activated carbon suspension with a max concentration of 3%, max particle size of 100 μ . The number of dosing lines complies with the number of filter cycles:

- Controller UNPL
- Peristaltic dosing pump SA
- Dosing performance max: 3,3 l/h respectively 8,5 l/h
- Back pressure max: 1,0 bar
- Leakage detection signal
- Flushing unit for the dosing tube app. 10 - 20 l/h with regulation valve and water flow indication
- Completely tubed and pre-wired on PP board
- 25 m dosing tube PE 6x1
- Injection valve 1/2" with ball valve

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing(s) to the injection point(s)
- Tubing of the overflow to the drain

TECHNICAL DATA

Suspension preparing unit

Electrical supply	230 V/AC 50 Hz
Power supply	60 W
Water supply	DN20
Measures	d 45 cm x H 112 cm
PM 100/200/300/500	d 56 cm x H 123 cm
	d 65 cm x H 132 cm
	d 79 cm x H 146 cm
Weight PM	32 kg / 40 kg / 45 kg / 50 kg
100/200/300/500	

Dosing line(s)	3,3 l/h	8,5 l/h
Electrical supply	230 V/AC 50 Hz	
Power supply	5 W	16 W
Measures	W 30 cm x H 30 cm x D 15 cm	W 36cm x H 44 cm x D 15 cm
Weight	2,5 kg	4 kg



Photo: Dosing line 3,3 l/h Photo: Dosing line 8,5 l/h



PAKDOS 60

Dosing system for the dust-free dosing of powdered activated carbon (PAC) to eliminate organic impurities from the water such as combined chlorine.

FUNCTION DESCRIPTION

Dosing directly from 60 l drum by a dosing screw. Production of a weak suspension to be conveyed to the filters by a venturi nozzle. Suitable for multiple pool systems together with the suspension distribution system. Water supply from behind the filter, injection point recommended before the filter pump (pressureless).

SCOPE OF DELIVERY

Vertical support: Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

Activated carbon dosing: Dosing hopper to be connected to the chemical drum. Dosing motor, dosing screw, knocker to support the dosing. Capacitive switch for empty monitoring of the drum, heated dosing nozzle.

Suspension unit: Pre-filter d 75, booster pump 0,33 kW/1250 l/h or 0,45 kW/1500 l/h (alternatively net water with solenoid valve), suspensor with sprinkler nozzles, venturi. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

Microprocessor controller V61: In housing IP 54. Adjustment of dosing performance and programme selection for service and test programmes by 4 switches. Non-volt fault remote control. Switch-off of the dosing at malfunction.

ACCESSORIES / OPTIONS

Suspension distribution PAK – SV: Distribution of the produced suspension to max. 4 separate filters with pneumatic or electric control valves. When the dosing is switched-off all dosing lines are closed.

- Controller with clock timer
- Pneumatic control valve
- Flow meter 60 - 1000 l/h according to demand
- Isolation ball valve PVC DN20 in the supply
- Pneumatic valve Pr DN20
- Dosing ball valve PVC DN20 to control the flow to each filter
- Distributor for compressed air

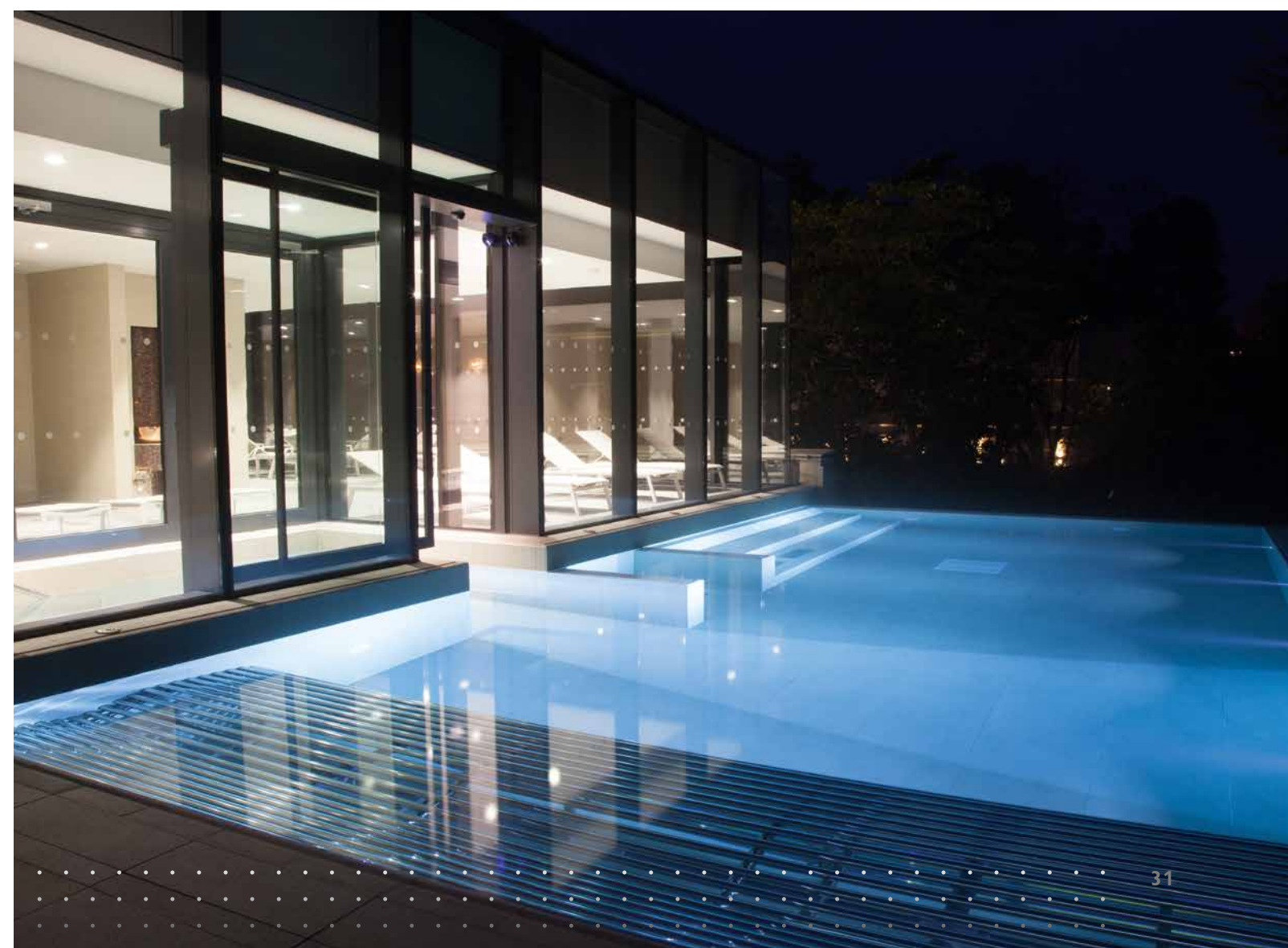


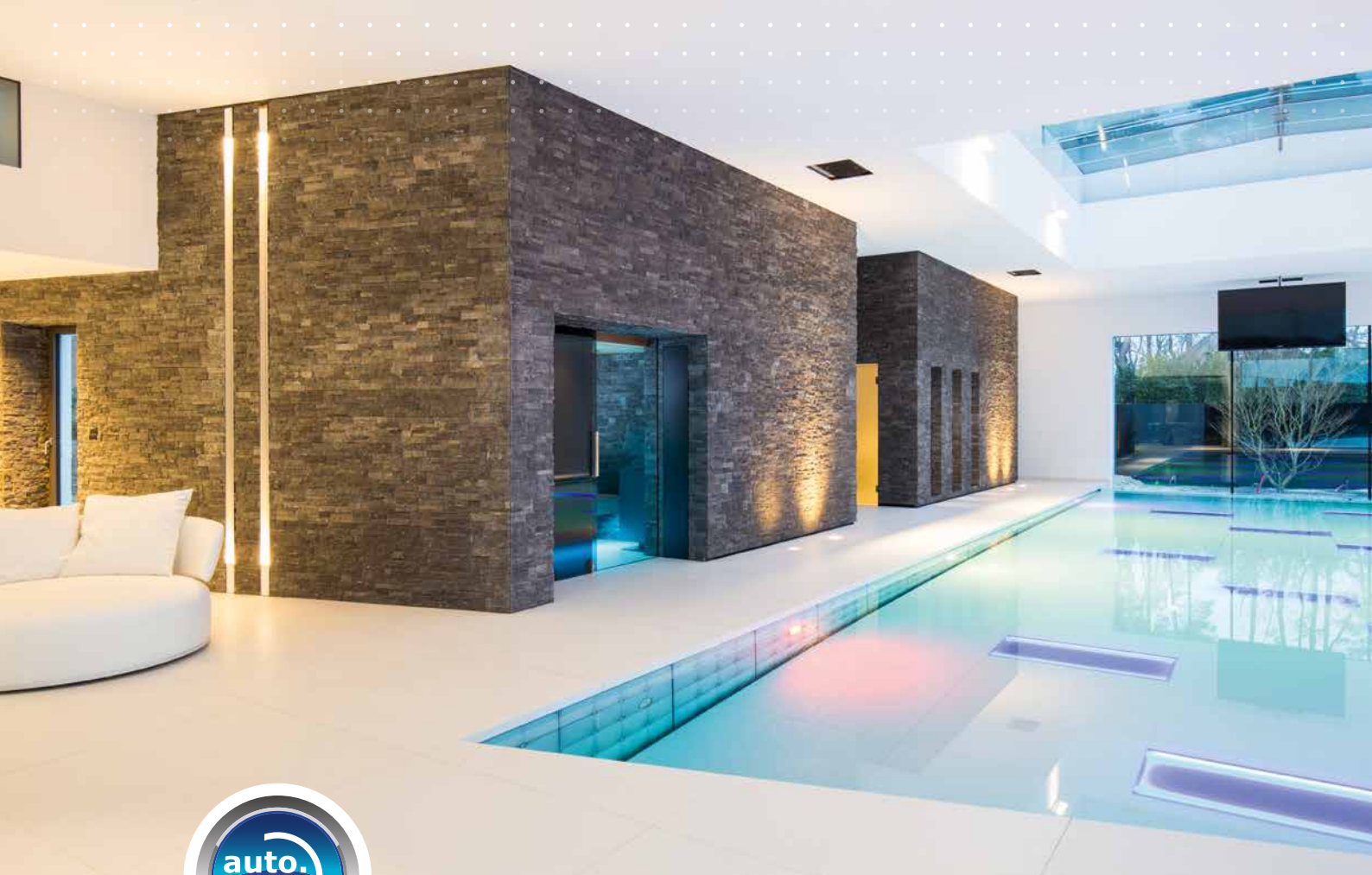
TECHNICAL DATA

Electrical supply	230 V/AC 50Hz (interlocked with filter)
Power supply	0,35 kW / 0,5 kW
Water supply	DN20
Water outlet to injection point	DN20
Measures	W 60 cm x H 70 cm x D 150 cm
Weight	app. 50 kg
Dosing performance	10 - 1200 g/h (optional up to 5000 g/h)
Pre-pressure min.	0,2 bar
Back-pressure max.	app. 2 bar (dependent on pre-pressure)

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain
- As the case may be compressed air supply





Autocontrol Systems

The prerequisite for a perfect and impeccable water quality in private and public swimming pools is an accurately functioning autocontrol system.

Our autocontrol systems are characterised by the following key features (depending on the area of application):

- Stable chlorine measurement with an open, potentiostatic measuring cell
- Very robust, low-wear, self-cleaning chlorine and redox electrode
- pH-electrode with a highly reliable reference system
- If required with integrated dosing system
- Easy and clearly arranged menu navigation via user-friendly 7" Touch-Graphic display
- Remote display and access via computer, smartphone, tablet
- Reliable and safe measurement and dosing
- Fast and easy installation due to pre-assembled components

Page:

- [33](#) For private pools (pH/Redox)
- [35](#) For public pools (Cl/pH/Redox)
- [37](#) Single channel controller (pH/Redox)
- [38](#) Accessories

POOLKLAR TOUCH XL-V2

The system POOLKLAR Touch XL has been developed especially for ambitious private pools, where a reliable compliance of the water quality demanded.

FUNCTION DESCRIPTION

Measuring-, control- and dosing system for the autocontrol of disinfection, pH-value and temperature. Operation and visualisation via user-friendly 7" Touch-Graphic display that ensures an easy operation. Each system is delivered individually tested and completely pre-mounted on a board. This ensures an easy and quick installation.

Useful for disinfection with chlorine, bromine, electrolysis, active oxygen.

SCOPE OF DELIVERY

Dosing techniques

- Coloured 7" Touch-Graphic display to indicate the current data and status of the unit
- Faults and alarms are illustrated by self-explaining icons
- All control parameters are adjustable to ensure optimal pool conditions
- Integrated test programmes for all functions
- Proportional control characteristic to ensure compliance with the selected set points
- Start-up automatic with pH preference dosing
- Level control of the canisters
- Input for external release
- Alarm relay with non-volt changeover contact
- Relay for the control of the pool heating with non-volt changeover contact
- Operation languages: German, English, French and Swedish

Remote indication

- The measuring values, the current status, faults and alarms can be remote indicated by every browser driven device (e.g. computer or smartphone – terminal device not incl.)

Measuring cell

- Compact acrylic glass block to take the electrodes, dosing valves, flow regulator and sample water valve. Pressure resistant design for measuring water recirculation
- pH-electrode with high reliability reference system
- Redox electrode with large and self cleaning Platinum round plate for direct reaction to each variation of the water quality. The selected disinfection force will be ensured
- Temperature sensor for temperature measurement
- Flow monitoring with switch-off in case of water shortage
- Illumination of the measuring cell for the indication of the system status



Dosing techniques

- Dosing with self-priming peristaltic dosing pumps
- Dosing of disinfection and pH-control chemicals directly into measuring water after the measuring cell
- Suction lances with level switches

Accessories (incl.)

- 10 m measuring water tube PE 6 x 1
- 7 m dosing tube PTFE 6 x 1
- Buffer solution pH7, pH4, Redox 468 mV
- Electrode cleaner, distilled water
- Cleaning pearls and a sealing kit
- 2 PVC-ball valves 1/2" with submerge tube
- Pre-filter for wall mounting

Design-cover

- Protective cover

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	8 W
Charging rate max.	100 mA
Measures	W 48 cm x H 67 cm x D 17 cm
Weight	app. 11 kg
Dosing performance chlorine	app. 1 l/h
Dosing performance acid	app. 1 l/h

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply water tubing incl. pre-filter
- Tubing to the injection point

ACCESSORIES / OPTIONS

- Filter pressure measurement
- Service Boxx for Poolklar



POOL-PR 2S

The system POOL-PR 2S has been developed especially for ambitious private pools, where a reliable compliance of the water quality demanded.

FUNCTION DESCRIPTION

Measuring-, control- and dosing system for the autocontrol of disinfection and pH-value. Operation and visualisation via LED's and a programme switch with status LED.

SCOPE OF DELIVERY

Control techniques

- Programme switch with status LED for easy operation of the operation-, test- and calibration programmes
- LED's for the indication of measuring values and faults
- Step switch for the adjustment of the set-point values
- Adjustment of the dosing performances to the specific pool by DIP switches
- Proportional control characteristic to ensure compliance with the selected set point
- Start-up automatic with pH preference dosing
- Level control of the canisters
- Alarm relay with non-volt changeover contact

Measuring cell

- Acrylic glass block to take the electrodes in pressure-resistant execution with control of the flow and switch-off in case of water shortage
- Pre-filter, sampling valve
- pH-electrode with high reliability reference system Ag/AgCl
- Redox electrode with large and self-cleaning platinum round blank for direct reaction to each variation of the water quality. The selected disinfection force will be ensured

Dosing techniques

- Dosing with self-priming peristaltic dosing pumps
- Suction lances with level switches
- Dosing of disinfection and pH-control chemicals directly into measuring water after the measuring cell

Accessories (incl.)

- 10 m measuring water tube PE 6 x 1
- 7m dosing tube PTFE 6 x 1
- Buffer solution pH7, pH4, Redox 468 mV
- Electrode cleaner, distilled water
- Cleaning pearls and a sealing kit
- 2 PVC-ball valves 1/2" with submerge tube



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	8 W
Charging rate max.	100 mA
Measures	W 43 cm x H 55 cm x D 16 cm
Weight	app. 8 kg
Dosing performance chlorine	app. 1 l/h
Dosing performance acid	app. 1 l/h

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point

ACCESSORIES / OPTIONS

- Service Boxx for Poolklar

CPR TOUCH XL-2S

The system CPR Touch XL-2S has been developed especially for ambitious private pools and public pools (ideal for e.g. hotel- und therapy pools), where a reliable compliance of the water quality demanded.

FUNCTION DESCRIPTION

Measurement of the parameters free chlorine, pH-value, redox/ORP and temperature. The system CPR Touch XL-2S is in accordance with the common swimming pool norms like DIN, ÖNORM and SIA. Stable and reliable measurement due to large and self cleaning chlorine and redox electrodes. Operation and visualisation via user-friendly 7" Touch-Graphic display that ensures an easy operation. Each system is delivered individually tested and completely pre-mounted on a board. This ensures an easy and quick installation.

SCOPE OF DELIVERY

Control techniques

- Coloured 7" Touch-Graphic display to indicate the current data and status of the unit
- Faults and alarms are illustrated by self-explaining icons
- All control parameters are adjustable to ensure optimal pool conditions
- Integrated test programmes for all functions
- Proportional control characteristic to ensure compliance with the selected set points
- Start-up automatic with pH preference dosing
- Level control of the canisters
- Input for external release, shock chlorination and ECO mode
- Alarm relay with non-volt changeover contact
- Relay 230 V for the control of the pool heating
- Operation languages: German and English
- measuring value- and event storage (data logging)

Interfaces

- Modbus TCP, USB for data export

Remote indication & access via browser driven devices (e.g. tablet or smartphone – terminal device not incl.)

- Indication of the measuring values, current operational states, errors and alarms
- Adjustment of the control and operation parameters

Measuring cell

- Compact acrylic glass block to take the electrodes, dosing valves, flow regulator and sample water valve. Pressure resistant design for measuring water recirculation
- pH-electrode with high reliability reference system
- Redox electrode with large and self-cleaning platinum round plate
- Free chlorine electrode consisting of: large and self-cleaning surface round gold plate and counter electrode with reference system Ag/AgCl



- Temperature sensor for temperature measurement
- Flow monitoring with switch-off in case of water shortage

Dosing techniques

- Dosing with self-priming peristaltic dosing pumps
- Dosing of disinfection and pH-control chemicals directly into measuring water after measuring cell
- Suction lances with level switch
- Pre-filter for wall mounting

Accessories (incl.)

- 10 m measuring water tube PE 6 x 1
- 7 m dosing tube PTFE 6 x 1
- Buffer solution pH7, pH4, Redox 468 mV
- Electrode cleaner, distilled water
- Cleaning pearls and a sealing kit
- 2 PVC-ball valves 1/2" with submerge tube

Design-cover

- Protective cover

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	8 W
Charging rate max.	2 A
Measures	W 48 cm x H 67 cm x D 17 cm
Weight	app. 12 kg
Dosing performance chlorine	app. 2,5 l/h
Dosing performance acid	app. 1,2 l/h

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply water tubing incl. pre-filter
- Tubing to the injection point

ACCESSORIES / OPTIONS

Without dosing pumps to connect external dosing systems.





CPR-COMPACT 3000

Autocontrol system for public swimming pools.

FUNCTION DESCRIPTION

For the control of the parameters free chlorine, pH-value, redox and temperature according to DIN 19634 to control all dosing units common in trade with frequency, impulse length, 2-point or 0/4...20mA. Operation and visualisation via a 4-line, illuminated display and 4 buttons.

SCOPE OF DELIVERY

Control techniques

- 4 Line display
- Operation via 4 buttons
- SD card for data- and event logging
- Fault indications in clear text
- LED's to indicate active outputs
- P, PI, PD, PID- control characteristics
- pH preference dosing
- Output pH - pulse, on/off, frequency
- Output chlorine - pulse, on/off, frequency, motor valve with feedback
- 3 free programmable analogue outputs 0/4...20 mA
- Level control of the canisters
- Input for external release
- Alarm relay with non-volt changeover contact
- Simple filter control
- Optional temperature measurement and control
- Optional total chlorine measurement with relay output
- Optional interface RS485 for remote indication and access
- Operation languages: German and English

Measuring cell

- Acrylic glass block to take the electrodes in pressure-resistant execution with control of the flow and switch-off in case of water shortage
- Pre-filter, sampling valve
- Free chlorine electrode consisting of: large and self-cleaning round gold blank and counter electrode with reference system Ag/AgCl
- pH-electrode with high reliability reference system Ag/AgCl
- Redox electrode with large and self-cleaning platinum round blank for direct reaction to each variation of the water quality. The selected disinfection force will be ensured



Accessories (incl.)

- 10 m measuring water tube PE 6 x 1
- Buffer solution pH7, pH4, Redox 468 mV
- Electrode cleaner, distilled water
- Cleaning pearls and a sealing kit
- 2 PVC-ball valves 1/2" with submerge tube

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	5 W
Charging rate max.	5 A
Measures	W 43 cm x H 65 cm x D 16 cm
Weight	app. 8 kg

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point

ACCESSORIES / OPTIONS

- Temperature measurement and control
- Total chlorine measurement
- Interface RS485 for remote indication and access
- Remote indication
- 7 segment LED remote indication

PH/REDOX-COMPACT

Autocontrol and dosing system for the pH regulation of for example swimming pools or swimming ponds.

FUNCTION DESCRIPTION

Operation and visualisation via red 7 segment LED display and 3 buttons.

SCOPE OF DELIVERY

Control techniques

- 7 segment LED Display
- Operation via 3 buttons
- Proportional control characteristic
- Direct control of the dosing pump
- Level control of the canisters
- Alarm relais with non-volt changeover contact

Measuring technique

- Electrode with high reliability reference system Ag/AgCl for the installation into the pool tubing and 3 m electrode cable

Dosing techniques

- Dosing with self-priming peristaltic dosing pump
- Suction lance with level switch
- Dosing of the chemical into the pool circuit

Accessories (incl.)

- Buffer solution pH7, pH4 respectively 468 mV
- Electrode cleaner
- 2 saddle clamps 1/2"
- Dosing valve 3/8" and 3m dosing tube PE 4 x 1
- Suction lance with empty switch
- Adapter 1/2" - 3/8" for dosing valve
- Adapter 1/2" - PG 13,5 for electrode



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Charging rate max.	100 mA
Measures	W 16 cm x H 15 cm x D 12 cm
Weight	1,5 kg
Dosing performance	max. 1,2 l/h

TO BE PROVIDED BY THE BUILDER

- Power supply
- Installation of the dosing valve and the electrode into the tubing of the swimming pool

ACCESSORIES / OPTIONS

On demand we can supply the system as a complete pre mounted unit with measuring water tubing, measuring cell and tapping point.





TELE INDICATION 10" TOUCH

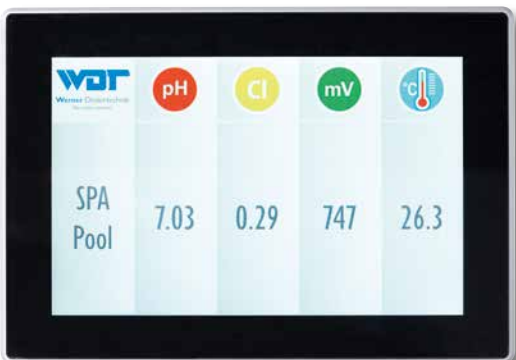
Tele indication via 10" Touchscreen display for the indication of the water values in areas of swimming pools that are accessible by the public.

FUNCTION DESCRIPTION

Bathing guests can convince themselves of the perfect quality of the swimming pool water. Besides the indicated hygiene parameters free chlorine, pH and redox the water temperature is shown too. Furthermore the operator of the pool can use the display for the information of his guests (e.g. bathing rules, advertisement). The water values and the stored guest information are shown alternating in a slideshow.

SCOPE OF DELIVERY

- Display: 10,1"IPS, 1280x800 Pixel
- Aluminium-front with 3 mm ESG glas, RAL9005
- Backwall made of stainless steel, 8 holding clamps
- Plug in transformer
- Network connection via RJ45 plug
- Programmes SD card
- Possible menu languages: German, English, French, Russian, Arabic



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	8 W
Measures	W 273 cm x H 190 cm x D 40 cm
Protection class	IP66 from the front

TO BE PROVIDED BY THE BUILDER

- Power supply
- Network cable to autocontrol system CPR TOUCH
- Installation frame

SERVICE-BOXX FOR POOLKLAR

SCOPE OF DELIVERY

The Service-Boxx consists e.g. of the following spare parts:

Quantity	Part No.	Description
1	10933	pH-electrode
2	10039	Dosing head
1	16662	Maintenance kit for injection valve 3/8" pH
1	16662-1	Maintenance kit for injection valve 3/8" disinfection
1	10481	Seal for cap fine filter
1	11985	Seal kit for redox electrode 1/2
1	10383	Buffer solution pH 4,00
1	10384	Buffer solution pH 7,00
1	10385	Buffer solution redox 468mV
1	11962	Electrode cleaner solution
1	11964	Cleaning beads
1	15945	Elektrolyte potassium chloride



Service-Boxx for all standard POOLKLAR systems. It contains all necessary wear parts for one annual maintenance. The box offers additional storage space for further spare parts such as fine filter, pH electrode cable, level switch, dosing motor and ball valve. The parts are included in a practical SORTIMO plastic box.





Dosing pumps & accessories UNODOS / FLOCDOS

WDT's portfolio is not just limited to dosing techniques for granulate, powder and salt. We also offer dosing pumps for liquid chemicals like flocculant, liquid chlorine and acid.

UNODOS/FLOCDOS peristaltic pumps are characterised by the following features:

- Self-priming
- Insensitive against air bubbles in the liquid
- Low noise operation
- Consistent and pulse-free dosing of liquid chemicals
- Integrated rpm control
- Low investment costs, easy to handle
- Low maintenance expense

In combination with the accessories produced by WDT, such as suction lances and injection valves, our products can be optimised to meet your needs. This guarantees a high level of flexibility in your choice of the technical components. We offer one-stop service and product selection.

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41 Peristaltic pumps

43 Accessories

UNODOS+

Rpm-controlled peristaltic pump for the continuous and reliable dosing of liquid chemicals.

FUNCTION DESCRIPTION

This type of pump will reliably meter a chemical solution to the injection point, particularly when low dosing rates are required. The advancing roller occludes the tube which, as it recovers, draws in fluid that then becomes trapped by the next roller and later expelled from the pump. The technique offers the following advantages: no contamination of the fluid or the pump as the fluid is contained in the tube, gentle pumping action with accurate flow rates, the pump is self-priming and can run dry, the pump is quiet running and very simple to handle. Adjustment of the dosing performance by a rotary knob with direct indication of the dosing performance in l/h.

SCOPE OF DELIVERY

- Peristaltic pump SA
- Dosing hose 1,6 x 1,6 or 3,2 x 1,6 with hose holder
- Roller SA
- Power supply cable with Euro plug
- Controller DS-2 with rotary knob, installed in housing
- Leakage monitoring: if the hose gets leaky, the dosing switches-off and a fault is indicated
- Canister empty indication
- Fault remote indication by a non-volt contact
- External control by non-volt contact (on/off)

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	max. 2 bar
Measures	W 80 mm x H 180 mm x D 140 mm
Weight	app. 0,8 kg
Dosing performance with hose 1,6 x 1,6	app. 0,2 - 0,9 l/h
Dosing performance with hose 3,2 x 1,6	app. 0,7 - 3,4 l/h



ACCESSORIES / OPTIONS

- Suction lance NF 500 with empty switch and non return foot valve for 30 kg canister
- Dosing tube PE 4 x 1
- Injection valve 1SK-4x1-S with removable injection tube and ball valve for ease cleaning of the valve nozzle
- Switch-over automatic for 2 canisters
- Retention tubs for 2 canisters





FLOCDOS+

Rpm-controlled peristaltic pump for the continuous and reliable dosing of flocculant or other liquid chemicals.

FUNCTION DESCRIPTION

This type of pump will reliably meter a chemical solution to the injection point, particularly when low dosing rates are required. The advancing roller occludes the tube which, as it recovers, draws in fluid that then becomes trapped by the next roller and later expelled from the pump. The technique offers the following advantages: no contamination of the fluid or the pump as the fluid is contained in the tube, gentle pumping action with accurate flow rates, the pump is self priming and can run dry, the pump is quiet running and very simple to handle. Adjustment of the dosing performance by a rotary knob with direct indication of the dosing performance in ml/h.

SCOPE OF DELIVERY

- Peristaltic pump SA
- Dosing hose 0,8 x 1,6 or 1,6 x 1,6 with hose holder
- Roller SA
- Power supply cable with Euro plug
- Controller DS-2 with rotary knob, installed in housing
- Leakage monitoring: if the hose gets leaky, the dosing switches-off and a fault is indicated
- Canister empty indication
- Fault remote indication by a non-volt contact
- Input (non-volt) for reduction of the dosing performance at night, reduction by app. 30%

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	max. 2 bar
Measures	W 80 mm x H 180 mm x D 140 mm
Weight	app. 0,8 kg
Dosing performance with hose 0,8 x 1,6	app. 5 - 50 ml/h
Dosing performance with hose 1,6 x 1,6	app. 15 - 200 ml/h



ACCESSORIES / OPTIONS

- Suction lance NF 500 with empty switch and non return foot valve for 30 kg canister
- Dosing tube PE 4 x 1
- Injection valve 1SK-4x1-S with removable injection tube and ball valve for ease cleaning of the valve nozzle
- Switch-over automatic for 2 canisters
- Retention tubs for 2 canisters

INJECTION VALVE 1SK



FUNCTION DESCRIPTION

Injection valve for the injection of the chemical into the pipework. With removable injection tube and PVC ball valve for easy maintenance of the valve nozzle. According to your demands produced for all common hose measures. For peristaltic - and diaphragm pumps.

SCOPE OF DELIVERY

- Injection valve with:
- PVC-ball valve 1/2"
 - Removable dosing lance with dosing valve
 - 1 spare valve rubber
 - Hose connection (size depending on the used dosing tube – 4 x 1 / 6 x 1 / 6 x 3)

INJECTION VALVE 2SK



FUNCTION DESCRIPTION

Injection valve for the injection of chlorine and acid at the same tapping point into the pipework. Due to the resulting self-cleaning-effect maintenance efforts are reduced. With removable dosing lance and PVC ball valve for an easy maintenance of the valve nozzle. According to your demands produced for all common hose measures. For peristaltic - and diaphragm pumps.

SCOPE OF DELIVERY

- Injection valve with:
- PVC-ball valve 1/2"
 - Removable dosing lance with dosing valve
 - 1 spare valve rubber
 - 2 x hose connection (size depending on the used dosing tube – 4 x 1 / 6 x 1 / 6 x 3)





SUCTION LANCES



FUNCTION DESCRIPTION

Suction lance NF with empty switch and non-return foot valve. According to your demands produced for all common hose measures.

SCOPE OF DELIVERY

- Suction lance NF 500 mm - other lengths on demand
- Canister lid for 20 or 30 or 70 l canisters
- Empty switch NIG 1/4" and non return foot valve
- 2 m suction tube PVC 4 x 1 – other hose connections on demand

SWITCH-OVER AUTOMATIC



FUNCTION DESCRIPTION

The Switch-Over Automatic is to guarantee a continuous chemical supply of the pool water circulation. If a chemical is primed out of two canisters and one canister gets empty, the unit switches automatically over to the full one. The empty canister can be replaced at any time.

SCOPE OF DELIVERY

- Controller UNPL in housing. Function- and fault indication by 4 LED. Fault remote indication by a non-volt contact
- Switch-over solenoid valve
- Power supply cable with Euro plug
- 2 Suction lances with empty switch and non-return foot valve
- Completely pre-installed on PP board

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 6 W
Measures	W 190 mm x H 370 mm x D 150 mm
Weight	app. 2 kg
Hose connection	4 x 1

ACCESSORIES / OPTIONS

- With installed peristaltic pump, controllable by impulse length or frequency
- Deaerator for the dosing with solenoid diaphragm pumps

DEAERATOR & PULSE DAMPER



FUNCTION DESCRIPTION

Deaeration of the suction tube at the dosing of outgassing liquids with diaphragm pumps.

Damping of pressure hits at the use of diaphragm pumps with a high dosing performance.

SAFETY TUBS



FUNCTION DESCRIPTION

Safety tubs for the uptake of chemical canisters (max. 2 canisters à 30 l). On demand the tubs can be equipped with dosing pumps and as the case may be a switch-over automatic or further accessories. So you can configure your individual dosing station for increased safety and comfort.

SCOPE OF DELIVERY

- Safety tub for 2 canisters à 30 l
- Console for the uptake of the components
- With or without separating strip

TECHNICAL DATA

Measures	W 670 mm x D 420 mm x H 960 mm
Weight	app. 15 kg





Dosing of Salt with SELDOS

Swimming pool and spa operators not only need to think about water quality in salt pools but also about salt concentrations which must be appropriate. SELDOS was especially developed to keep the salt concentration stable.

SELDOS is characterised by the following key features:

- Ideal control of the salt dosing by a conductivity controller
- Integrated measuring cell
- Available as stand-alone system or to be adapted to a GRANUDOS for the combined use of the chlorine- and salt dosing system
- Reliable operation
- Easy handling

SELDOS

Dosing system for salt to keep the brine concentration in salt water pools stable.

FUNCTION DESCRIPTION

The chemical is filled from the delivery package into a container or a drum. From here it is dosed by a dosing screw into the dissolving system. The chemical is dissolved there and conveyed to the swimming pool water cycle.

The dosing of the salt is regulated by a conductivity controller. The measuring cell for the conductivity is installed in the supply of the dissolving unit.

SCOPE OF DELIVERY

- **Container:** PE container 100 l in framework made of zinc and powder coated steel incl. connection flange for the dosing unit. Alternatively vertical support with rotating drum carrier.
- **Dosing unit:** Dosing motor and dosing screw, vibrator for the support of the salt dosing, capacitive switch for empty monitoring.
- **Dissolving system:** Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.
- **Microprocessor controller S4:** In housing IP 54. Adjustment of dosing performances. Programme selector for service and test programmes. Switch-off of the dosing at malfunction. Non-volt fault remote control. Processing of all monitoring switches.

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,3 kW
Back-pressure max.	1,2 bar (optional 1,8 bar)
Measures	W 75 cm x D 75 cm x H 160 cm
Dosing performance	max. 5 kg/h



Photo with dust extraction for dusty chlorine granulate material.

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

ACCESSORIES / OPTIONS

- Dust extraction for dusty chlorine granulate material
- Adaption to a GRANUDOS for the combined use of the dissolving system



Dosing of oxygen granulate with OXYDOS

The OXYDOS is the first system that we have developed for the automatic, time controlled dosing of oxygen granulate. The granulate (potassium monopersulfate) is a real alternative to liquid hydrogen peroxide.

OXYDOS is characterised by the following key features:

- Chlorine free treatment of private swimming pools
- Tested and confirmed by an independent hygiene institute
- Easy storage and handling of granulate in comparison to liquid hydrogen peroxide
- No unpleasant chlorine smell

OXYDOS

Dosing system for the dosing of oxygen granulate for a chlorine free disinfection of residential swimming pools. This product is a real alternative to the dosing of liquid hydrogen peroxide.

FUNCTION DESCRIPTION

The granulate is dosed directly from the integrated hopper into a dissolving tank from where the solution is conveyed into the swimming pool circulation via a booster pump. The water supply is controlled by a floating valve. The system can either be operated with fresh- or filter circuit water. The water level in the dissolving tank is regulated by two level switches. The power supply has to be interlocked with the filtration system. The dosing is controlled by an individually adjustable weekly timer. Operation and visualisation by a 3,2" touch screen. Algicide can be dosed optionally by a peristaltic pump that will be integrated into the system (time controlled too).

The system is useful for swimming pools from app. 30 - 200 m³ pool volume.

Producers of the chemical recommend to dose app. 15 - 30 g / m³ pool volume / week oxygen granulate. The oxygen content in the water shall be app. 10 - 30 mg / l.

SCOPE OF DELIVERY

- **Housing:** Solid one part rotational sintered PE shape green containing all functional parts.
- **Granulate dosing:** Dosing hopper for max. 15 kg oxygene granulate, dosing motor, dosing screw, bridge breaker for the support of the dosing.
- **Dissolving system:** Flushing tank, booster pump app. 800 - 1000 l/h at 1,2 bar. Level monitoring in the flushing tank.
- **Micro processor controller NT35:** Controller with intuitive 3,2" touch screen to set the dosing performance and to indicate possible faults in plain text.



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	0,4 kW
Water supply	DN15
Water outlet to injection point	DN15
Measures	W 65 cm x H 95 cm x D 55 cm
Weight	app. 30 kg
Dosing performance oxygene granulate	5 kg/h
Dosing performance algicide (optional)	3 l/h
Pre-pressure min.	0,4 bar
Back-pressure max.	0 - 1,5 bar, depending on pre-pressure

TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

ACCESSORIES / OPTIONS

- Dosing pump for algicide

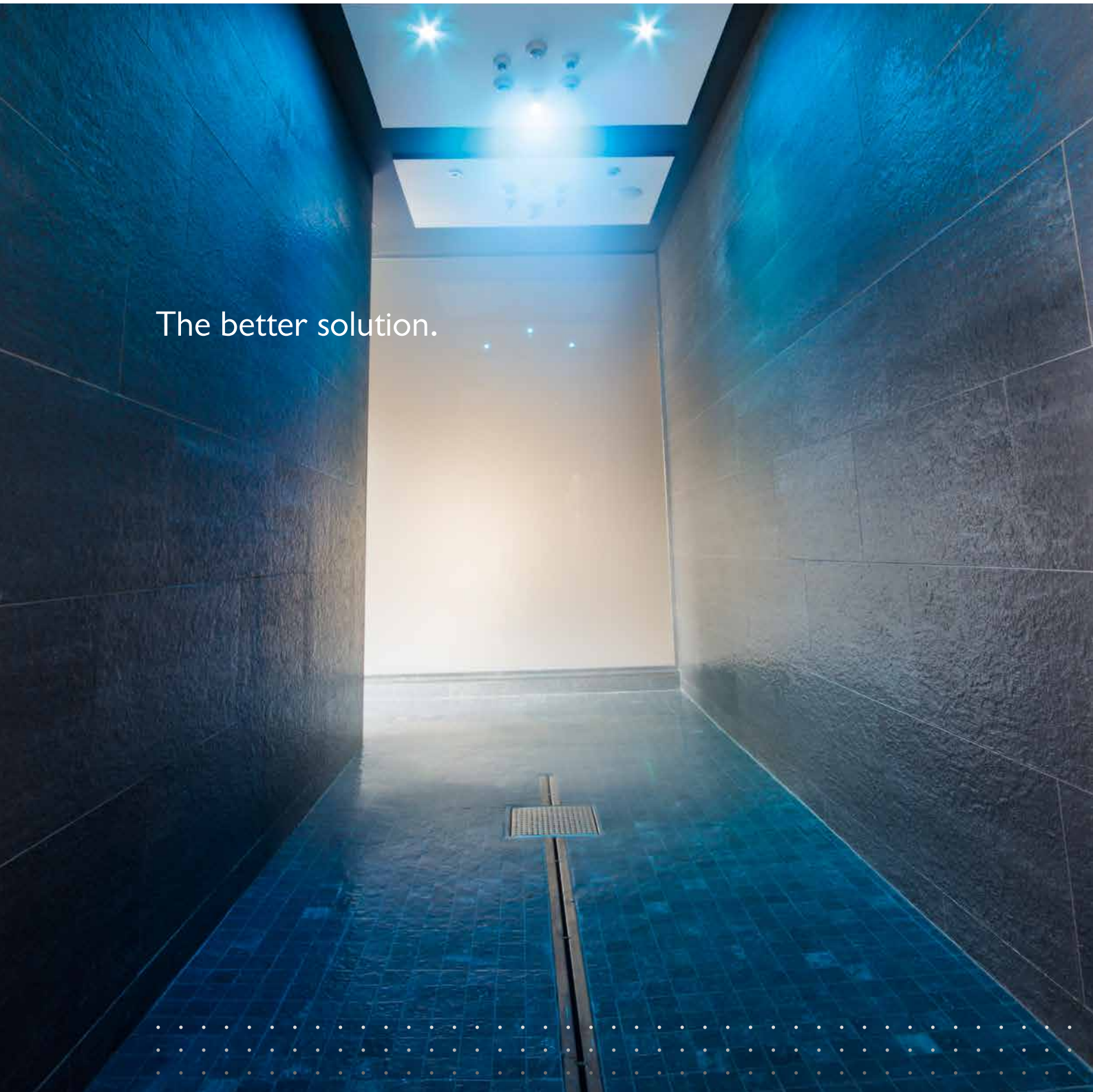




WDT

Werner Dosiertechnik

WELLNESS



The better solution.



Relax, experience, regenerate. Due to the trend to improve the quality of life, the number of wellness & spa centers in the private and public sector has increased enormously over the last years. As a result, technical equipment for wellness facilities has become a main pillar of WDT's business activities.

Our product range for dosing, control and attraction systems is a compilation of ideas from all over the world which have inspired us. We are always ready for new challenges from our customers! Technical equipment for a perfect room climate, colour light effects and beneficial

aroma experiences are only a small part of what we produce. Of course, all our products offer you the highest functionality and safety levels.

Our experiences and our know-how guarantee you professional consultation about the technical requirements and perfect service.



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89 Technique for Steam Rooms



105 Technique for Saunas



112 Nebulisation of brine solution



116 Foam for Hammam Massages



118 Foot bath sputtering system



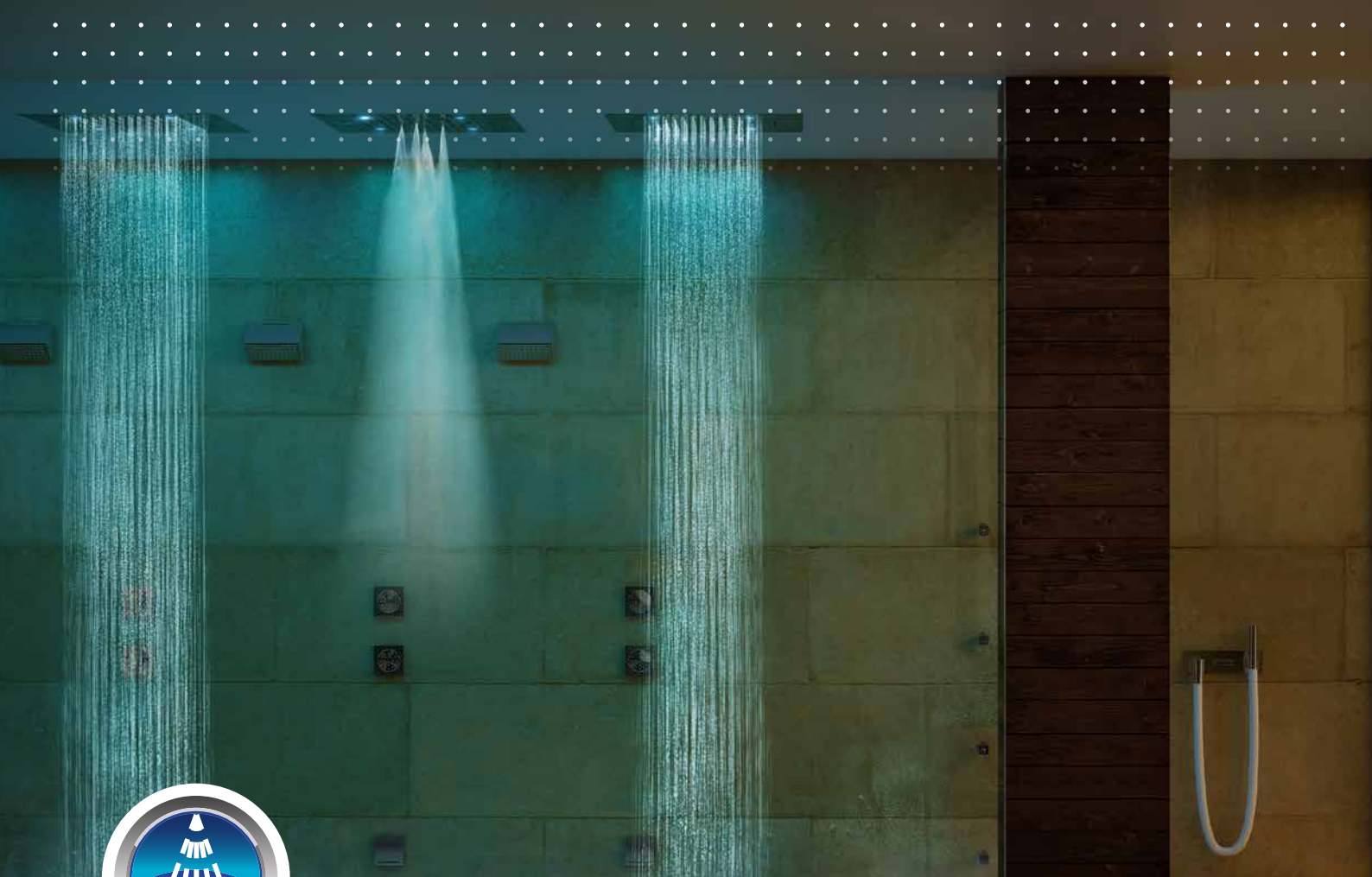
124 Room aromatisation



128 Touch screen controllers



131 Fragrances, Brine solution, Foam agent



Experience Showers

Smell, sight, hearing and touch. Our product line, Experience Showers, activates all the senses of the user of a wellness shower. Aromatised rain showers with light and sound effects create pleasant dream worlds for the user.

With the push of a button, a warm tropical rain patters down onto the shower guest. An exotic aroma fills the air. Birds tweet and a warm light shines. Flashing lights and growling thunder fill the room. This is only one of many possible shower scenarios that are realisable with our product line Experience Showers.

There are nearly no limits to the fantasy and the technical possibilities available. The conceptual design of the components is organised in kits that can individually be configured. A simple, quick and trouble-free installation is guaranteed as all components such as the controller, thermo-mixer, solenoid valves, non-return valve, aroma pump and aroma reservoir are pre-installed on a mounting board.

WATCH OUR EXPERIENCE SHOWER VIDEO.
Scan the QR code or search for „wdt experience showers“ on youtube.

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FOG SHOWER W2

FUNCTION DESCRIPTION

After the start of the programme by a button the light in the shower changes from white to a blue-green colour change. A cold, refreshing fog with very fine droplets starts to spray and a minty, cooling aroma fills the air. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off. The endurance of the programme and the aroma intensity can be adjusted individually at the controller. As an option the tubing to the nozzles can be emptied automatically after the programme.

SCOPE OF DELIVERY

- The control panel Fog Shower W2 consists of:
- Supply with pre-filter and ball valve MS 1/2" female thread
 - Outlet with solenoid valve 1/2" and screwing 1/2"
 - Fragrance pump with fragrance reservoir and empty switch
 - Dosing valve for the injection of aroma into the water tube
 - Microprocessor controller EDS1 in housing
 - Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	1/2" female thread
Measures	W 50 cm x H 65 cm x D 20 cm
Weight	app. 10 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 12 l/min at the use of 2 Fog Nozzles
- Tubing to the nozzles
- Non-return according to DIN EN1717 in the supply
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Emptying
- Fragrance





TROPICAL RAIN W2

FUNCTION DESCRIPTION

After the start of the programme by a button the light in the shower changes from white to a red-green colour change. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower and a fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the rain and the sound are switching off. The endurance of the programme and the aroma intensity can be adjusted individually at the controller.

SCOPE OF DELIVERY

- The control panel Tropical Rain W2 consists of:
- 2 x Supply with pre-filter and ball valve MS 1/2" female thread
 - Thermo mixer JRG 1/2" with non-return valves
 - Outlet with solenoid valve 1/2" and screwing 1/2"
 - Emptying for the tube to the nozzle
 - Fragrance pump with fragrance reservoir and empty switch
 - Dosing valve for the injection of aroma into the water tube
 - Microprocessor controller EDS1 in housing
 - Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 1/2" female thread
Measures	W 50 cm x H 65 cm x D 20 cm
Weight	app. 11 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Water connection warm 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 40 l/min at the use of 2 Rain Nozzles
- Tubing to the nozzles
- 2 x Non-return according to DIN EN1717 in the supplies
- Drain in the plants room

ACCESSORIES / OPTIONS

- To be ordered separately:
- Push button plate with bonnet for flush-mounting
 - Nozzles
 - Illumination
 - Sound module
 - Ceiling element
 - Fragrance

FRAGRANCE SHOWER ESB-11

FUNCTION DESCRIPTION

System for the aromatisation of shower water with solenoid diaphragm pump and dosing unit. The aromatisation starts automatically together with the water of the shower (as an option it can be started by a push button or by an external non-volt contact). The dosing performance is adjustable from 1 - 15 ml/min. If the fragrance reservoir gets empty, the pump switches off. The connection to the water tubing can be easily done by the incl. dosing unit.

SCOPE OF DELIVERY

- The Fragrance Shower-ESB11 consists of:
- Fragrance pump with fragrance reservoir
 - Dosing valve for the injection of aroma into the water tube
 - 3 m dosing tube PTFE
 - Empty switch
 - Pressure switch for the start of the pump (integrated in dosing unit)
 - Controller/ transformer NT24b in housing with test switch
 - Completely pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	30 W
max. back pressure	app. 5 bar
Measures	W 25 cm x H 50 cm x D 20 cm
Weight	app. 4,5 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Non-return according to DIN EN1717 in the supply

ACCESSORIES / OPTIONS

- To be ordered separately:
- Push button plate to start the aromatisation
 - Start of the aromatisation by an external non-volt contact
 - Fragrance





EVENT SHOWER W3

FUNCTION DESCRIPTION

The Event Shower W3 is ideal for a Kneipp cooling effect from the legs in direction of the heart by side nozzles. After the start of the programme by a button the light in the shower changes from white to blue. The lowest pair of side nozzles (level of the legs) starts to spray cold water. After an adjustable time the middle pair of nozzles (level of the hips) follows and after the same time the upper pair of nozzles (level of the upper part of the body). The pairs of nozzles can work together or separately from each other. After the end of the programme the illumination changes back to white and the nozzles are switching off.

SCOPE OF DELIVERY

- The control panel Event Shower W3 consists of:
- Supply with pre-filter and ball valve MS 3/4" female thread
 - 3 x Outlet with solenoid valve 1/2" and screwing 1/2"
 - Microprocessor controller EDS1 in housing
 - Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	3/4" female thread
Measures	W 50 cm x H 50 cm x D 20 cm
Weight	app. 7 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: 54 l/min at the use of 6 WDT Side Nozzles
- Tubing to the nozzles

ACCESSORIES / OPTIONS

- To be ordered separately:
- Push button plate with bonnet for flush-mounting
 - Nozzles
 - Illumination
 - Sound module

EVENT SHOWER WK4 HOT/COLD CHANGE SHOWER

FUNCTION DESCRIPTION

The Event Shower WK4 is ideal for a Kneipp hot-cold change shower from the legs in direction of the heart by side nozzles. After the start of the programme by a button the light in the shower changes from white to blue. The lowest pair of side nozzles at the level of the legs starts to spray cold water. After an adjustable time the pair of nozzles at the level of the hips follows, then the pair of nozzles at the level of the stomach followed by a pair at the level of the shoulders. Now the temperature changes from cold to warm water, the light changes to red and the 4 pairs of nozzles work in the opposite direction. After the end of the programme the illumination changes back to white and the nozzles are switching off.

SCOPE OF DELIVERY

- The control panel Event Shower WK4 consists of:
- 2 x Supply with pre-filter and ball valve MS 1/2" female thread
 - Thermo mixer JRG 1/2" with non-return valves
 - 4 x Outlet with solenoid valve 1/2" and screwing 1/2"
 - 2 x solenoid valve 1/2" for cold-warm change
 - Microprocessor controller EDS1 in housing
 - Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 1/2" female thread
Measures	W 65 cm x H 50 cm x D 20 cm
Weight	app. 10 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Water connection warm 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: 72 l/min at the use of 8 WDT Side Nozzles
- Tubing to the nozzles

ACCESSORIES / OPTIONS

- To be ordered separately:
- Push button plate with bonnet for flush-mounting
 - Nozzles
 - Illumination
 - Sound module





NIAGARA RAIN SED1-2K

FUNCTION DESCRIPTION

Programme 1: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the rain and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Niagara Rain

The programme starts with the cold, refreshing Fog Shower and blue light. In a distance you hear the sound of waves and sea. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Fog. The illumination in the shower changes to a red-green colour change. In the last step of the programme the warm Tropical Rain stops and the programme finishes with the cold Fog and a blue-green colour change. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

SCOPE OF DELIVERY

The control panel Niagara Rain SED 1-2K consists of:

- 2 x Supply with pre-filter and ball valve MS 1/2" female thread
- Thermo mixer JRG 1/2" with non-return valves
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 1/2" female thread
Measures	W 50 cm x H 65 cm x D 20 cm
Weight	app. 7 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Water connection warm 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 50 l/min at the use of 2 Rain- and 2 Fog Nozzles
- Tubing to the nozzles

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element

NIAGARA RAIN SED1-3K

FUNCTION DESCRIPTION

Programme 1: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the rain and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Warm Side Nozzles are massaging the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Niagara Rain

The programme starts with warm Side Nozzles and green light. You hear birds tweeting. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Side Nozzles. You hear a thunderstorm coming and you see flashlights. In the final programme step the thunderstorm is finishing. The Tropical Rain stops and the Cold Fog is spraying together with the warm Side Nozzles. The illumination in the shower changes to a blue-green colour change and you hear birds tweeting again. After the end of the programme the illumination changes back to white, the fog, the side nozzles and the sound are switching off.

SCOPE OF DELIVERY

The control panel Niagara Rain SED1-3K consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"
- 1 x Outlet with solenoid valve 3/4" and screwing 3/4"
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 3/4" female thread
Measures	W 50 cm x H 65 cm x D 20 cm
Weight	app. 8 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 70 l/min at the use of 2 Rain- / 2 Fog and 6 WDT Side Nozzles
- Tubing to the nozzles

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element





CARIBBEAN STORM SED2

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Warm Side Nozzles are massaging the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Caribbean Storm

The programme starts with warm Side Nozzles and green light. You hear birds tweeting. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Side Nozzles. A fruity, lively aroma fills the air. You hear a thunderstorm coming and you see flashlights. In the final programme step the thunderstorm is finishing. The Tropical Rain stops and the Cold Fog is spraying together with the warm Side Nozzles. The illumination in the shower changes to a blue-green colour change and you hear birds tweeting again. After the end of the programme the illumination changes back to white, the fog, the side nozzles and the sound are switching off.

Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.

SCOPE OF DELIVERY

The control panel Caribbean Storm SED2 consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves



- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"
- 1 x Outlet with solenoid valve 3/4" and screwing 3/4"
- Emptying for the tube to the aromatised nozzle
- Fragrance pump with fragrance reservoir and empty switch
- Dosing valve for the injection of aroma into the water tube
- Non-return according to DIN EN1717
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 3/4" female thread
Measures	W 75 cm x H 75 cm x D 20 cm
Weight	app. 15 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 70 l/min at the use of 2 Rain- /2 Fog and 6 WDT Side Nozzles
- Tubing to the nozzles
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance

MIDNIGHT RAIN SED3

FUNCTION DESCRIPTION

Programme 1: Fog Shower with aroma

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray and a minty, cooling aroma fills the air. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 2: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the rain and the sound are switching off.

Programme 3: Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Side Nozzles are massaging the guest in the shower. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Midnight Rain

The programme starts with warm Side Nozzles and green light. You hear the sound of an alpine creek. In the following the cold refreshing Fog is added and works together with the Side Nozzles. A minty, refreshing aroma fills the air. The illumination in the shower changes to a blue-green colour change. In the final programme step the Fog Shower stops. The warm Side Nozzles are spraying together with the warm Tropical Rain. The illumination in the shower changes to a red-green-blue colour change. After the end of the programme the illumination changes back to white, the Side Nozzles, the Tropical Rain and the sound are switching off.

Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.

SCOPE OF DELIVERY

The control panel Midnight Rain SED3 consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"



- 1 x Outlet with solenoid valve 3/4" and screwing 3/4"
- Emptying for the tube to the aromatised nozzle
- Fragrance pump with fragrance reservoir and empty switch
- Dosing valve for the injection of aroma into the water tube
- Non-return according to DIN EN1717
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 3/4" female thread
Measures	W 75 cm x H 75 cm x D 20 cm
Weight	app. 15 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 70 l/min at the use of 2 Rain- /2 Fog and 6 WDT Side Nozzles
- Tubing to the nozzles
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance





SIBIRIAN NIGHT SED4

FUNCTION DESCRIPTION

Programme 1: Fog Shower with aroma

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray and a minty, cooling aroma fills the air. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 2: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the rain and the sound are switching off.

Programme 3: Cold Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Cold Side Nozzles are massaging the guest in the shower. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Siberian Night

The programme starts with the warm Tropical Rain and red light. You hear birds tweeting. In the following the cold refreshing Fog is added and works together with the Tropical Rain. A minty, refreshing aroma fills the air. The illumination in the shower changes to red-green colour change. In the final programme step the Fog Shower stops. The cold Side Nozzles are spraying together with the warm Tropical Rain. The illumination in the shower changes to flash lights and you hear the roll of thunder. After the end of the programme the illumination changes back to white, the Side Nozzles, the Tropical Rain and the sound are switching off.

Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.

SCOPE OF DELIVERY

The control panel Siberian Night SED4 consists of:

- 1 x Supply cold with pre-filter and ball valve MS 3/4" female thread
- 1 x Supply warm with pre-filter and ball valve MS 1/2" female thread
- Thermo mixer JRG 1/2" with non-return valves
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"



- 1 x Outlet with solenoid valve 3/4" and screwing 3/4"
- Emptying for the tube to the aromatised nozzle
- Fragrance pump with fragrance reservoir and empty switch
- Dosing valve for the injection of aroma into the water tube
- Non-return according to DIN EN1717
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	1 x 3/4" and 1 x 1/2" female thread
Measures	W 75 cm x H 75 cm x D 20 cm
Weight	app. 15 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 70 l/min at the use of 2 Rain- /2 Fog and 6 WDT Side Nozzles
- Tubing to the nozzles
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance

POLAR FLASH SED5

FUNCTION DESCRIPTION

Programme 1: Fog Shower with aroma

After the start of the programme by a button the light in the shower changes from white to a blue-green colour change. A cold, refreshing fog with very fine droplets starts to spray and a minty, cooling aroma fills the air. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 2: Cold Drizzle Rain

After the start of the programme by a button the light in the shower changes from white to blue. A cold Drizzle Rain with soft drops refreshes the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Drizzle Rain and the sound are switching off.

Programme 3: Cold Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Cold Side Nozzles are massaging the guest in the shower. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Polar Flash

The programme starts with the cold Side Nozzles and green light. You hear the sound of an alpine creek. In the following the cold refreshing Fog is added and works together with Side Nozzles. A minty, refreshing aroma fills the air. The illumination in the shower changes to a blue-green colour change. In the final programme step the Fog Shower stops. The cold Side Nozzles are spraying together with the cold Drizzle Rain. After the end of the programme the illumination changes back to white, the Side Nozzles, the Drizzle Rain and the sound are switching off.

SCOPE OF DELIVERY

The control panel Polar Flash SED5 consists of:

- 1 x Supply cold with pre-filter and ball valve MS 3/4" female thread
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"
- 1 x Outlet with solenoid valve 3/4" and screwing 3/4"
- Emptying for the tube to the aromatised nozzle
- Fragrance pump with fragrance reservoir and empty switch
- Dosing valve for the injection of aroma into the water tube
- Non-return according to DIN EN1717
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	1 x 3/4" female thread
Measures	W 75 cm x H 75 cm x D 20 cm
Weight	app. 12 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 47 l/min at the use of 2 Drizzle- /2 Fog and 6 WDT Side Nozzles
- Tubing to the nozzles
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance





TROPICA SED6

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Tropica

The programme starts with the cold Fog Shower and blue light. In a distance you hear the sound of waves and sea. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Fog. A fruity, lively aroma fills the air. The illumination in the shower changes to a red-green colour change. The programme lapses with the cold Fog and blue light. After the end of the programme the illumination changes back to white, the Fog and the sound are switching off.

SCOPE OF DELIVERY

The control panel Tropica SED6 consists of:

- 2 x Supply with pre-filter and ball valve MS 1/2" female thread
- Thermo mixer JRG 1/2" with non-return valves
- 2 x Outlet with solenoid valve 1/2" and screwing 1/2"
- Emptying for the tube to the aromatised nozzle
- Fragrance pump with fragrance reservoir and empty switch
- Dosing valve for the injection of aroma into the water tube
- Non-return according to DIN EN1717
- Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	2 x 1/2" female thread
Measures	W 75 cm x H 75 cm x D 20 cm
Weight	app. 15 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Water connection warm 1/2"
- Needed pressure: 3 bar dynamic
- Water quantity: app. 47 l/min at the use of 2 Rain- and 2 Fog Nozzles
- Tubing to the nozzles
- Drain in the plants room

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance

ATLANTIC OCEAN RA1

FUNCTION DESCRIPTION

Programme 1: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing Fog with very fine droplets starts to spray. In a distance you hear the roll of thunder. After the end of the programme the illumination changes back to white, the Fog and the sound are switching off.

Programme 2 : Caribbean Storm

After the start of the programme by a button a warm String Rain starts to spray. The illumination in the shower changes to a red-green colour change. Birds are tweeting. After an adjustable time a warm Tropical Rain with big, smooth drops increases the water volume. A fruity, lively aroma fills the air. Then the rain gets weaker again and the programme lapses with the warm String Rain. After the end of the programme the illumination changes back to white, the String Rain and the sound are switching off. The tubing is emptied automatically.

Programme 3: Atlantic Ocean

The programme starts with a warm Drizzle Rain. The illumination in the shower changes to a red-green-blue colour change. You can hear a storm. After an adjustable time an additional Fog cools the temperature down. A minty, refreshing aroma fills the air. In the last step of the programme the cold Fog is replaced by a warm Tropical Rain.

Programme 4: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

SCOPE OF DELIVERY

The control panel Atlantic Ocean RA1 consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 5 x Outlet with solenoid valve 1/2" and screwing 1/2"
- Emptying for the tube to the aromatised nozzle
- 2 x Fragrance pump with fragrance reservoir and empty switch
- 2 x Dosing valve for the injection of aroma into the water tube
- 2 x Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	150 W
Water supply	2 x 3/4" female thread
Measures	W 100 cm x H 75 cm x D 20 cm
Weight	ca. 20 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity max: app. 65 l/min
- Tubing to the nozzles
- Drain in the plants room
- 2 x Non-return according to DIN EN1717 in the supplies

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance





TROPICAL THUNDER RA2

FUNCTION DESCRIPTION

Programme 1: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red and a soft, warm Drizzle Rain patters onto the guest in the shower. You hear birds tweeting. In the following a warm String Rain is added. A fruity, lively aroma fills the air. The light changes to yellow. Now a cold Drizzle Rain cools the temperature down. An automatic yellow-green colour change starts. Then the cold Drizzle stops and the programme finishes with the warm Drizzle, the aromatised String Rain and an automatic red-green colour change. After the end of the programme the illumination changes back to white, the warm Drizzle and the aromatised String Rain are switching off.

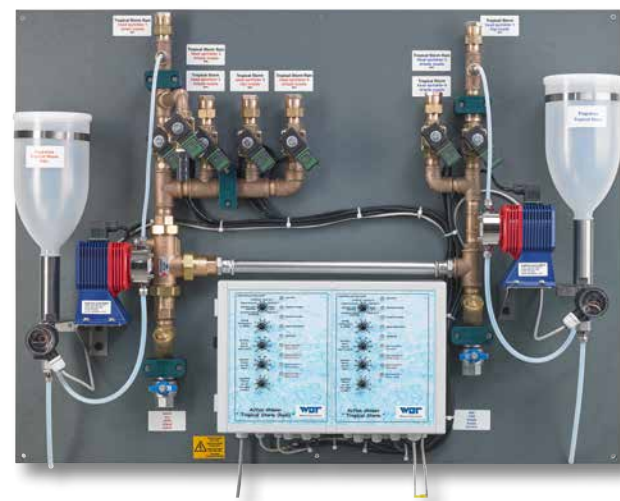
Programme 2: Tropical Storm

The programme starts with a warm Drizzle and red light. In a distance you hear the sound of waves and sea. After an adjustable time the light changes to green and a cold, refreshing fog with very fine droplets is added. A minty, cooling aroma fills the air. In the following the warm Drizzle stops and the cold Fog continues. Now a warm Tropical Rain with blue light is added and then goes over into a warm Drizzle. You hear a thunderstorm coming and you see flashlights. The thunderstorm finishes in the last step of the programme. The illumination changes to red and the programme lapses with a warm Drizzle. After the end of the programme the illumination changes back to white, the warm Drizzle is switched off.

SCOPE OF DELIVERY

The control panel Tropical Thunder RA2 consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 6 x Outlet with solenoid valve 1/2" and screwing 1/2"
- Emptying for the tube to the aromatised nozzle
- 2 x Fragrance pump with fragrance reservoir and empty switch
- 2 x Dosing valve for the injection of aroma into the water tube
- 2 x Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	150 W
Water supply	2 x 3/4" female thread
Measures	W 100 cm x H 75 cm x D 20 cm
Weight	app. 20 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity max: app. 54 l/min
- Tubing to the nozzles
- Drain in the plants room
- 2 x Non-return according to DIN EN1717 in the supplies

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance

WATER FUN ID1

FUNCTION DESCRIPTION

Programme 1: Water Fun

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing Fog with very fine droplets starts to spray and a minty, cooling aroma fills the air. In a distance you hear the sound of waves and sea. Now the lowest pair of side nozzles at the level of the legs starts to spray cold water. After an adjustable time the pair of nozzles at the level of the hips follows, then the pair of nozzles at the level of the upper body. Now the temperature changes from cold to warm water, the light changes to red and the 3 pairs of nozzles work in the opposite direction. The programme lapses with the cold, aromatised Fog. After the end of the programme the illumination changes back to white and the nozzles are switching off.

Programme 2: Tropical Rain

The programme starts with a warm Drizzle and an automatic red-green colour change. A fruity, lively aroma fills the air. You hear birds tweeting. After an adjustable time a warm Tropical Rain with big, smooth drops is added and patters onto the guest in the shower. Now the rain is getting weaker and the programme lapses with the warm Drizzle. After the end of the programme the illumination changes back to white, the Drizzle with aroma and the sound are switching off.

Programme 3: Mediterranean

The programme starts with a cold Fog and an automatic red-green-blue colour change. In a distance you hear the roll of thunder. After an adjustable time a soft, warm Drizzle is added. In the following the cold Fog stops and the programme lapses with the warm Drizzle. After the end of the programme the illumination changes back to white, the Drizzle and the sound are switching off.

SCOPE OF DELIVERY

The control panel Water Fun ID1 consists of:

- 2 x Supply with pre-filter and ball valve MS 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 8 x Outlet with solenoid valve 1/2" and screwing 1/2"
- 2 x Solenoid valve for cold-warm change
- 2 x Emptying for the tube to the aromatised nozzles
- 2 x Fragrance pump with fragrance reservoir and empty switch
- 2 x Dosing valve for the injection of aroma into the water tube
- 2 x Microprocessor controller EDS1 in housing
- Completely tubed and pre-wired on PP board grey



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	150 W
Water supply	2 x 3/4" female thread
Measures	W 120 cm x H 75 cm x D 20 cm
Weight	app. 20 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity max: app. 47 l/min
- Tubing to the nozzles
- Drain in the plants room
- 2 x Non-return according to DIN EN1717 in the supplies

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush-mounting
- Nozzles
- Illumination
- Sound module
- Ceiling element
- Fragrance





PUSH BUTTON PLATES

FUNCTION DESCRIPTION

Push button plates with Piezo push buttons with or without illumination
Plates with 1 - 4 Piezo buttons and deepening for name plates or engraving/lasering. With plug connection or open wires.

SCOPE OF DELIVERY

- Basic plates (Alu-Dibond, stainless steel polished or brushed, Corian)
- Piezo push-button(s)
- 7 m wire/4 screws M4 x 30
- Connector for the connection to WDT systems
- Excl. bonnet for flush-mounting

TO BE PROVIDED BY THE BUILDER

- Empty conduit d 32 for the installation of the cable

ACCESSORIES / OPTIONS

- Bonnet for flush mounting

TECHNICAL DATA

	With illumination	Without illumination
Switching function	N.O.	
Supply voltage	12/24 VDC	
Switching voltage	24 VAC/DC	
Switching current	max. 100 mA	
Electrical Rating	1 W	
Measures 1-fold plate	W 76 mm x H 109 mm	
Measures 2-fold plate	W 76 mm x H 142 mm	
Measures 3-fold plate	W 76 mm x H 175 mm	
Measures 4-fold plate	W 76 mm x H 208 mm	



Alu-Dibond

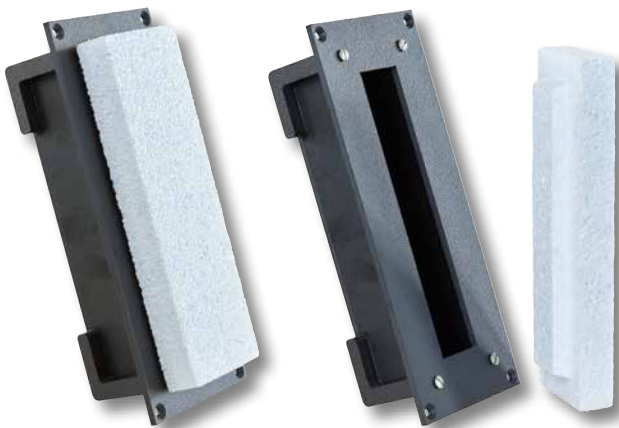


Stainless steel polished



Corian
Colours on demand

BONNET FOR FLUSH MOUNTING OF PUSH BUTTON PLATES



FUNCTION DESCRIPTION

Bonnet for flush mounting for the installation of WDT push button plates into construction boards or brick walls. Material Polystyrol (PS), black.

SCOPE OF DELIVERY

- Built-in bonnet as described above incl. perforation for the connection of the empty conduit
- Protective cover made of EPS for the definition of a clear tile edge and for the protection against pollution of the inside

TECHNICAL DATA

Measures for 1-fold bonnet	W 96 mm x H 129 mm x D 52 mm
Part no. 21030-1	
Measures for 2-fold bonnet	W 96 mm x H 162 mm x D 52 mm
Part no. 21034-1	
Measures for 3-fold bonnet	W 96 mm x H 195 mm x D 52 mm
Part no. 21031-1	
Measures for 4-fold bonnet	W 96 mm x H 228 mm x D 52 mm
Part no. 21032-1	

NAME PLATES FOR ALU-DIBOND PUSH BUTTONS



FUNCTION DESCRIPTION

For the labelling of the Alu-Dibond push buttons plates we offer a big choice of name plates. Beside our standard choice we can manufacture your individual name plate. Chinese or Russian name plates are realizable too for example.

SCOPE OF DELIVERY

Here is a small selection of name plates:

Part No.	Description
17528	Tropical Rain
17534	Cool Fog
18986	Side Nozzles
17527	Caribbean Storm
18596	Atlantic Ocean
17787	Kneipp





FOG NOZZLE

FUNCTION DESCRIPTION

- Fog Nozzle for a very fine, cold fog
- Very pleasant cooling effect
 - Wide spray angle
 - Water saving

SCOPE OF DELIVERY

- Part No. 13526 - Fog Nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 130° spray angle
 - 6 l per minute at 5 bar
 - H 31 mm, D 40 mm

ACCESSORIES / OPTIONS

Cover screen part no. 13877



DRIZZLE NOZZLE

FUNCTION DESCRIPTION

- Nozzle for a soft Drizzle Rain
- Ideal as warm shower
 - For Country- or Summer Rain
 - Water saving

SCOPE OF DELIVERY

- Part No. 13527 - Drizzle Nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 70° spray angle
 - 6 l per minute at 5 bar
 - H 28 mm, D 50 mm

ACCESSORIES / OPTIONS

Cover screen part no. 13878



TROPICAL RAIN NOZZLE

FUNCTION DESCRIPTION

- Tropical Rain Nozzle for big, smooth drops
- Ideal as warm shower
 - For Tropical- or Gush Rain

SCOPE OF DELIVERY

- Part No. 13528 - Tropical Rain Nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 45° spray angle
 - 40 l per minute at 5 bar
 - H 31 mm, D 27 mm

ACCESSORIES / OPTIONS

Cover screen part no. 13879



STRING NOZZLE

FUNCTION DESCRIPTION

- String Nozzle for a warm, prickling rain
- Prickling on the skin, ideal as warm shower
 - 15 single, fine water jets create a continuous string rain

SCOPE OF DELIVERY

- Part No. 16593 - String Nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 66° spray angle
 - 16 l per minute at 5 bar
 - H 31 mm, D 27 mm

ACCESSORIES / OPTIONS

Cover screen part no. 13879



SPLASH NOZZLE

FUNCTION DESCRIPTION

- Splash Nozzle for waterfall-/splash showers
- Big, smooth water wheel
 - Ideal as cooling shower
 - Water saving compared to normal splash sprinkler heads
 - For installation at the wall or at the sealing

SCOPE OF DELIVERY

- Part No. 16363 - Splash Nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 45° spray angle
 - 22,5 l per minute at 2 bar

ACCESSORIES / OPTIONS

Cover screen part no. 13879



SIDE NOZZLE

FUNCTION DESCRIPTION

- Side Nozzle for the installation in the wall
- Ideal as warm shower
 - For Side Massage effect

SCOPE OF DELIVERY

- Part No. 19769 - Side Nozzle
- Connection 1/2" male thread
 - Chrome plated
 - 9 l per minute at 3 bar



WIDE JET NOZZLE

FUNCTION DESCRIPTION

- Double-Wide jet nozzle
- Ideal for back massage
 - Ideal for water curtain effect or useful as side nozzle
 - Installation app. 1,20 - 1,40 m over floor level

SCOPE OF DELIVERY

- Part No. 16066 - Double-Wide jet nozzle
- Connection 1/2" female thread
 - Brass, chrome plated
 - 120° spray angle
 - 20 l per minute at 5 bar

ACCESSORIES / OPTIONS

Cover screen part no. 13879



COVER SCREENS FOR NOZZLES

FUNCTION DESCRIPTION

- Cover screens are available for the following nozzles: Fog, Tropical Rain, Drizzle, String, Splash, Wide Jet
- Plastic white, black or chrome-plated





LED SPOTS RGB AND MOUNTING SLEEVES

FUNCTION DESCRIPTION

The spots have been especially developed for the use in Wellness areas. The protection class is IP65 and they are operated with low voltage. Furthermore the light bulb can be exchanged easily when the spots are already installed and sealed in. The spots are available in RGB. An easy installation is ensured as the spots are prepared for plug and play.

SCOPE OF DELIVERY

- System for pre-coated, GFK or aluminum surfaces:
- LED spots RGB 3x1 Watt multicolour IP65 brass chrome plated, stainless steel or alu coated (colour on demand), lense beamless
 - Installation boring 42 mm,
 - Cover 60 mm outer diameter
 - Mounting sleeve D 42 x 110 (40) mm with counter nut
 - Incl. connection cable 20 cm JST

TECHNICAL DATA

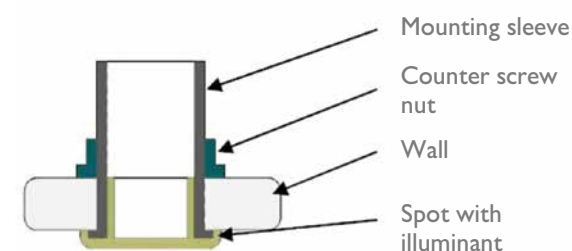
Control signal	350 mA constant current
Power supply	3 x 1 W
Light colours	Red - Green - Blue
Installation boring	42 mm
Weight	app. 0,25 kg
Installation depth	55 mm or 125 mm (depending on mounting sleeve)
Diameter of the cover	60 mm

ACCESSORIES / OPTIONS

The spots are connected in series. For the connection of the single spots there are extension cables available: 1,5 - 2,5 - 5,0 - 7,0 m.



DRAWING OF THE SYSTEM WITH MOUNTING SLEEVE:



CONTROLLER FOR LED SPOTS RGB

FUNCTION DESCRIPTION

Controller for LED-RGB spots for Experience Showers with an operation current of 350 mA. The controller can realise 15 different light programmes in combination with the RGB spots for example: Cold White (in stand-by), Red, Green, Blue, Red-Green colour change, Blue-Green colour change, Red-Green-Blue colour change, Flashlights etc.

SCOPE OF DELIVERY

Light controller for 1 - 10 spots. The controller can realise six static colours and nine light programmes. The light controller is controlled by a four-digit code by the controller of the Experience Shower.

TECHNICAL DATA

Electrical supply	230 V/AC 50-60 Hz
Power supply	42 VA/ 0,4 A
Operation temperature range	0 to +50 °C
Weight	1,5 kg
Measures	W 13 cm x H 18 cm x D 9 cm



MP3 PLAYER WDT V2

FUNCTION DESCRIPTION

The MP3 Player with integrated amplifier is built into a compact housing for cap rail installation. The system can play MP3 sound files from a USB stick or a micro SD card. The music can also be transmitted via a Line in/ Line out-connection and emitted via integrated stereo amplifier. It is possible to control certain titles separately or to play them within a playlist. The system can manage up to four playlists.

The player can be controlled via RS485-interface with the Mod-Bus protocol. Furthermore, it is possible to control playlists or titles directly via four digital inputs. Additionally there are four further digital inputs, to operate the player: play, stop, next and prev; the volume up and down functions are realised by longer signals on the play and stop inputs.

The MP3 player can easily be operated directly on the device via a five-line graphic display and three capacitive buttons.

SCOPE OF DELIVERY

- MP3-Player
- Micro SD card 8GB (min. speed class 4)

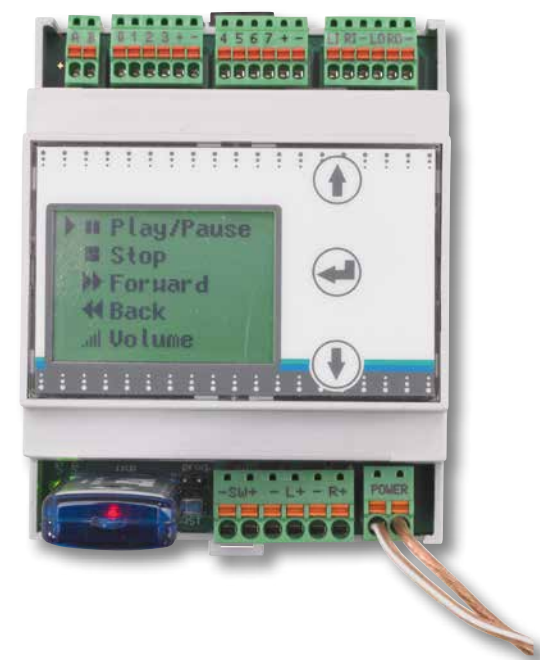
Interfaces:

- USB
- Micro SD card
- Line in / out
- 2-wire data BUS MOD BUS RTU 485
- 4 digital input binary code
- 4 digital input for keyboard

ACCESSORIES / OPTIONS

To be ordered separately:

- Loudspeaker
- Transformer
- Relay board NT34 for control with 230V signal



TECHNICAL DATA

Electrical supply	12 - 24 V/DC 12 – 18 V/AC
Power supply	10 W
Weight	300 g
Measures	W 71 x H 90 x D 58mm
Music output	2x 25 W 4 Ohm Stereo + 20 W 4 Ohm Subwoofer (at power supply 24V/DC or 18V/AC)
Protection class	IP30
Workspace	-0 bis +40°C
Accepted formats	MP3

HUMIDOR LOUDSPEAKER

FUNCTION DESCRIPTION

Sea water resistant speaker 10 cm (4"). Broadband speaker with plastic membrane and plastic basket/-grill. Absolutely resistant against humidity and corrosion. Clear playback of high tones. Colour: White. Incl. resonance bonnet.

Applications:

- Outdoor
- Humid rooms
- Boats, ships and open vehicles

Characteristics:

- sea water resistant
- useful for low temperatures according to EN 60068-2-1 (-40 °C; 96 h)
- Plastic: ASA (UL 94: HB; UV-resistant)

TECHNICAL DATA

Nominal power handling	20 W
Capacitance	30 W
Impedency	4 Ohm
Frequency response	(-10 dB) 80–16000 Hz
Acoustic pressure	85 dB
Angle (-6 dB)	76 °/4000 Hz
Protection class	IP 65
Temperature range	–40 to 80 °C
Colour	white
Weight	0,275 kg





CEILING ELEMENT PVC



FUNCTION DESCRIPTION

Ceiling element for Experience Shower made of PVC white with all components integrated: Nozzles for water, loudspeaker for sound effects and LED spots RGB for the illumination of the shower.

SCOPE OF DELIVERY

The ceiling elements d 800 x 19 mm consist of the following components:

- PVC plate d 800 mm
- 3 LED spots RGB - WDT POM 48 - 350 mA
- Controller LED RGB - WDT SAU 350 mA with 7 m cable to the 1st spot
- Nozzle plates 2 x 1/2" - V2A - length 30 mm

ACCESSORIES / OPTIONS

To be ordered separately:

- Nozzles for Experience Showers
- Loudspeaker
- Other dimensions and shapes on demand
- Fastening material

Part-No.	Number of connections for nozzles
21748-1	with 2 connections for 2 nozzles
21767-2	with 3 connections for 3 nozzles
21768-3	with 4 connections for 4 nozzles
21769-3	with 5 connections for 5 nozzles
21770-1	with 6 connections for 6 nozzles
21771-1	with 7 connections for 7 nozzles
22066-1	with 8 connections for 8 nozzles
21830-1	with 9 connections for 9 nozzles
21772-1	with 11 connections for 11 nozzles

CEILING ELEMENT WITH BACKLIGHTING



FUNCTION DESCRIPTION

All components that are necessary for an Experience Shower are integrated in the ceiling element. Nozzles for the water attractions and LED RGB strip light for the illumination of the shower. The advantage is that the illumination works indirectly and that the complete ceiling is illuminated. The light refraction is caused by a plexiglas plate.

SCOPE OF DELIVERY

The ceiling elements d 800 x 100 mm consists of the following components:

- Light bonnet Polystyrol d 760 x 100 mm
- Plexiglas 8 mm round d 800
- Strip lights LED RGB - WDT - 24 VDC
- Controller LED RGB - WDT SAU-Linelight - 24 VDC with 7 m cable to the strip lights
- Nozzle plates 2 x 1/2" - V2A - length 150 mm

ACCESSORIES / OPTIONS

To be ordered separately:

- Nozzles for Experience Showers
- Loudspeaker
- Other dimensions and shapes on demand
- Fastening material

Part-No.	Number of connections for nozzles
21117-1	with 2 connections for 2 nozzles
21118-1	with 3 connections for 3 nozzles
21119-1	with 4 connections for 4 nozzles
21120-1	with 5 connections for 5 nozzles
21121-1	with 6 connections for 6 nozzles
21122-1	with 7 connections for 7 nozzles
21164-1	with 8 connections for 8 nozzles
21392-1	with 10 connections for 10 nozzles
21167-1	with 11 connections for 11 nozzles

CEILING ELEMENT CORIAN



FUNCTION DESCRIPTION

Ceiling element for Experience Shower made of Corian® with all components integrated: Nozzles for water effects, loudspeaker for sound effects and LED spots RGB for the illumination of the shower.

SCOPE OF DELIVERY

The function plates d 800 x 12 mm consist of the following components:

- Corian plate d800 mm - colours on demand
- 3 LED spots RGB - WDT brass chrome plated 60 - 350 mA
- Controller LED RGB - WDT SAU 350 mA with 7 m cable to the 1st spot
- Nozzle plates 2 x 1/2", AG - V2A - length 30 mm

ACCESSORIES / OPTIONS

To be ordered separately:

- Nozzles for Experience Showers
- Loudspeaker
- Other dimensions and shapes on demand
- Fastening material





CEILING ELEMENT CHROME PLATED

FUNCTION DESCRIPTION

Chrome plated ceiling element for Experience Showers with all necessary components integrated: nozzles/head showers for the water effects and LED RGB spots for the illumination of the cabinet. Equipped for max. 4 attractions that are controlled from a control panel for Experience Showers.

SCOPE OF DELIVERY

The ceiling element consists of the following components:

- Ceiling element chrome plated
- Nozzles and head shower elements
- 4 (8) spots LED RGB - WDT - 700 mA
- Controller LED RGB - WDT SAU 700 mA with 7 m cable to the 1st spot
- Supply hoses
- Fastening material

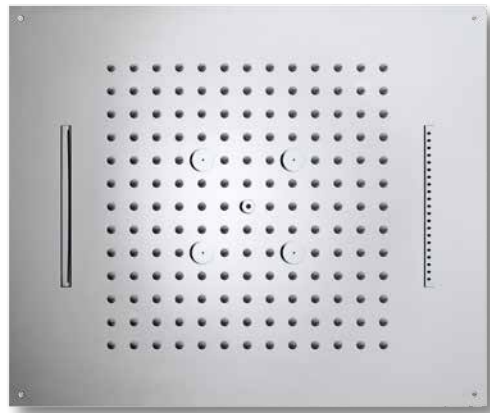
ACCESSORIES / OPTIONS

To be ordered separately:

- Loudspeaker
- Other dimensions and shapes on demand

TECHNICAL DATA

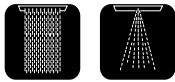
Measures	570 mm x 470 mm
Water connection	2 or 4 x 1/2" (according to version)
Flow rates of the single attraction at app. 3 bar:	
Rain Shower	app. 30 l/min
Mist	app. 10 l/min
Waterfall full blade	app. 20 l/min
Waterfall part blade	app. 19 l/min
Weight	app. 12 kg



POSSIBLE CONFIGURATIONS

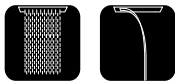
Part-No. 24980:

Rain Shower, Mist (8 RGB Spots)



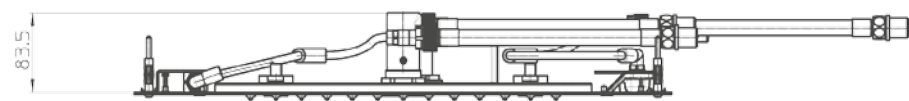
Part-No. 24652:

Rain Shower, Waterfall full blade (4 RGB Spots)



Part-No. 24651:

Rain Shower, Waterfall full blade, Waterfall part blade, Mist (4 RGB Spots)



Packages

An Experience Shower consists generally of a combination of the components that have been described in the previous chapters: control panel, push button plate, ceiling element, nozzles, LED RGB illumination and sound (as the case may be).

These packages can be configured individually for the particular application.

A new trend gaining in popularity are rain walks or tunnels. This gives users a unique, active experience because the bather is lead through the tunnel/walk through automated programs that lead him/her from attraction to attraction. The programs are either activated by a push button or photo sensors at the entrance of the walk/ tunnel.

In the following, you find example configurations of packages for single showers or shower tunnels.

For single showers

Page:

- 80 Niagara Rain Sed1-3K with ceiling element PVC
- 81 Tropica Sed6 with ceiling element PVC or chromed
- 83 Caribbean Storm Sed2 with ceiling element PVC or chromed
- 85 Atlantic Ocean RA1 with ceiling element PVC
- 86 Tropical Thunder RA2 with ceiling element PVC

For shower tunnels

Page:

- 87 Duschtunnel with ceiling element PVC
- 88 Duschtunnel with ceiling element chromed



NIAGARA RAIN SED1-3K WITH CEILING ELEMENT PVC

FUNCTION DESCRIPTION

Programme 1: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the rain and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. You hear the sound of an alpine creek.

After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Warm Side Nozzles are massaging the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Niagara Rain

The programme starts with warm Side Nozzles and green light. You hear birds tweeting. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Side Nozzles. You hear a thunderstorm coming and you see flashlights. In the final programme step the thunderstorm is finishing. The Tropical Rain stops and the Cold Fog is spraying together with the warm Side Nozzles. The illumination in the shower changes to a blue-green colour change and you hear birds tweeting again. After the end of the programme the illumination changes back to white, the fog, the side nozzles and the sound are switching off.

Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.



SCOPE OF DELIVERY

A complete package for a Niagara Rain with ceiling element PVC consists of the following components:

Control panel

- 1 x Control Panel „Niagara Rain“ - Part no. 14104

Push button plate

- 1 x Push button plate 4-fold - Part no. 19014
- 1 x Bonnet 4-fold - Part no. 21032-1
- 1 x Name plate „Tropical Rain“ - Part no. 17528
- 1 x Name plate „Cool Fog“ - Part no. 17534
- 1 x Name plate „Side Nozzles“ - Part no. 18986
- 1 x Name plate „Niagara Rain“ - Part no. 23923

Ceiling element incl. illumination

- 1 x ceiling element PVC white d 800 x 19 mm with 3 LED Spots RGB d48 incl. controller SAU and 7 m cable with 4 connections for 4 nozzles - Part no. 21768-3

Nozzles

- 2 x Rain Nozzle 1/2" - Part no. 13528
- 2 x Cover Screen for Rain Nozzle - Part no. 13879
- 2 x Fog Nozzle 1/2" - Part no. 13526
- 2 x Cover Screen for Fog Nozzle - Part no. 13877
- 6 x Side Nozzle - Part no. 19769

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4

TROPICA SED6 WITH CEILING ELEMENT PVC

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Tropica

The programme starts with the Cold Fog Shower and blue light. In a distance you hear the sound of waves and sea. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with Fog. Fruity, lively aroma fills the air. The illumination in the shower changes to a red-green colour change. The programme lapses with the Cold Fog and blue light. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.



SCOPE OF DELIVERY

A complete package for a Tropica with ceiling element PVC consists of the following components:

Control panel

- 1 x Control Panel „Tropica“ - Part no. 14245

Push button plate

- 1 x Push button plate 3-fold - Part no. 19013
- 1 x Bonnet 3-fold - Part no. 21031-1
- 1 x Name plate „Tropical Rain“ - Part no. 17528
- 1 x Name plate „Cool Fog“ - Part no. 17534
- 1 x Name plate „Tropical“ Part No. 18243

Ceiling element incl. illumination

- 1 x ceiling element PVC white d 800 x 19 mm with 3 LED Spots RGB d 48 incl. controller SAU and 7 m cable with 4 connections for 4 nozzles - Part no. 21768-3

Nozzles

- 2 x Rain Nozzle 1/2" - Part no. 13528
- 2 x Cover Screen for Rain Nozzle - Part no. 13879
- 2 x Fog Nozzle 1/2" - Part no. 13526
- 2 x Cover Screen for Fog Nozzle - Part no. 13877

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4





TROPICA SED6 WITH CEILING ELEMENT CHROME PLATED

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

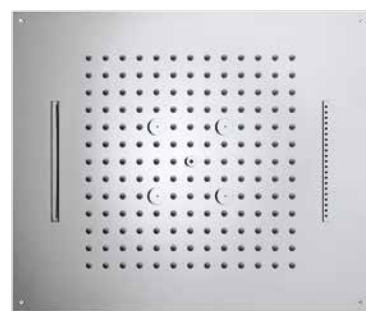
After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Tropica

The programme starts with the Cold Fog Shower and blue light. In a distance you hear the sound of waves and sea. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with Fog. Fruity, lively aroma fills the air. The illumination in the shower changes to a red-green colour change. The programme lapses with the Cold Fog and blue light. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.



SCOPE OF DELIVERY

A complete package for a Tropica with ceiling element chrome plated consists of the following components:

Control panel

- 1 x Control Panel „Tropica“ - Part no. 14245

Push button plate

- 1 x Push button plate 3-fold - Part no. 19013
- 1 x Bonnet 3-fold - Part no. 21031-1
- 1 x Name plate „Tropical Rain“ - Part no. 17528
- 1 x Name plate „Cool Fog“ - Part no. 17534
- 1 x Name plate „Tropical“ - Part no. 18243

Ceiling element incl. illumination

- 1 x ceiling element chrome plated (Rain Shower, Mist - 8 RGB spots) - Part-No. 24980

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4

CARIBBEAN STORM SED2 WITH CEILING ELEMENT PVC

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Side Nozzles

After the start of the programme by a button the light in the shower changes from white to green. Warm Side Nozzles are massaging the guest in the shower. You hear birds tweeting. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Caribbean Storm

The programme starts with warm Side Nozzles and green light. You hear birds tweeting. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the Side Nozzles. A fruity, lively aroma fills the air. You hear a thunderstorm coming and you see flashlights. In the final programme step the thunderstorm is finishing. The Tropical Rain stops and the Cold Fog is spraying together with the warm Side Nozzles. The illumination in the shower changes to a blue-green colour change and you hear birds tweeting again. After the end of the programme the illumination changes back to white, the fog, the side nozzles and the sound are switching off.

Optionally you can use Drizzle- instead of Side Nozzles for programme 3 and 4.



SCOPE OF DELIVERY

A complete package for a Caribbean Storm with ceiling element PVC consists of the following components:

Control panel

- 1 x Control Panel „Caribbean Storm“ - Part no. 14105

Push button plate

- 1 x Push button plate 4-fold - Part no. 19014
- 1 x Bonnet 4-fold - Part no. 21032-1
- 1 x Name plate „Tropical Rain“ - Part no. 17528
- 1 x Name plate „Cool Fog“ - Part no. 17534
- 1 x Name plate „Side Nozzles“ - Part no. 18986
- 1 x Name plate „Caribbean Storm“ - Part no. 17527

Ceiling element incl. illumination

- 1 x ceiling element PVC white d 800 x 19 mm with 3 LED Spots RGB d 48 incl. controller SAU and 7 m cable with 4 connections for 4 nozzles - Part no. 21768-3

Nozzles

- 2 x Rain Nozzle 1/2" - Part no. 13528
- 2 x Cover Screen for Rain Nozzle - Part no. 13879
- 2 x Fog Nozzle 1/2" - Part no. 13526
- 2 x Cover Screen for Fog Nozzle - Part no. 13877
- 6 x Side Nozzle - Part no. 19769

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4



CARIBBEAN STORM SED2 WITH CEILING ELEMENT CHROME PLATED

FUNCTION DESCRIPTION

Programme 1: Tropical Rain with aroma

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.

Programme 2: Fog Shower

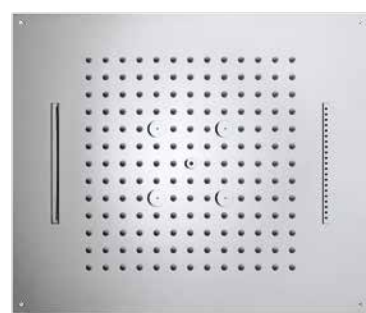
After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing fog with very fine droplets starts to spray. In a distance you hear the sound of waves and sea. After the end of the programme the illumination changes back to white, the fog and the sound are switching off.

Programme 3: Waterfall

After the start of the programme by a button the light in the shower changes from white to green. Two warm waterfalls are massaging the guest in the shower. You hear the sound of an alpine creek. After the end of the programme the illumination changes back to white, the nozzles and the sound are switching off.

Programme 4: Caribbean Storm

The programme starts with the warm waterfalls and green light. You hear the sound of an alpine creek. In the following the warm Tropical Rain with big, smooth drops increases the water volume and works together with the waterfalls. Fruity, lively aroma fills the air. You hear a thunderstorm coming and you see flashlights. In the final programme step the thunderstorm is finishing. The Tropical Rain stops and the Cold Fog is spraying together with the warm waterfalls. The illumination in the shower changes to a blue-green colour change and you hear the alpine creek again. After the end of the programme the illumination changes back to white, the fog, the waterfalls and the sound are switching off.



SCOPE OF DELIVERY

A complete package for a Caribbean Storm with ceiling element chrome plated consists of the following components:

Control panel

- 1 x Control Panel "Caribbean Storm" - Part no. 14105

Push button plate

- 1 x Push button plate 4-fold - Part no. 19014
- 1 x Bonnet 4 fold - Part no. 21032-1
- 1 x Name plate "Tropical Rain" - Part no. 17528
- 1 x Name plate "Cool Fog" - Part no. 17534
- 1 x Name plate "Waterfall" - Part no. 20704
- 1 x Name plate "Caribbean Storm" - Part no. 17527

Ceiling element incl. illumination

- 1 x ceiling element chrome plated (Rain Shower, Waterfall full blade, Waterfall part blade, Mist - 4 LED spots RGB) - Part no. 24651

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4

ATLANTIC OCEAN RA1 WITH CEILING ELEMENT PVC

FUNCTION DESCRIPTION

Programme 1: Fog Shower

After the start of the programme by a button the light in the shower changes from white to blue. A cold, refreshing Fog with very fine droplets starts to spray. In a distance you hear the roll of thunder. After the end of the programme the illumination changes back to white, the Fog and the sound are switching off.

Programme 2: Caribbean Storm

After the start of the programme by a button a warm String Rain starts to spray. The illumination in the shower changes to a red-green colour change. Birds are tweeting. After an adjustable time a warm Tropical Rain with big, smooth drops increases the water volume. A fruity, lively aroma fills the air. Then the rain gets weaker again and the programme lapses with the warm String Rain. After the end of the programme the illumination changes back to white, the String Rain and the sound are switching off. The tubing is emptied automatically.

Programme 3: Atlantic Ocean

The programme starts with a warm Drizzle Rain. The illumination in the shower changes to a red-green-blue colour change. You can hear a storm. After an adjustable time an additional Fog cools the temperature down. A minty, refreshing aroma fills the air. In the last step of the programme the cold Fog is replaced by a warm Tropical Rain.

Programme 4: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red. A warm Tropical Rain with big, smooth drops patters onto the guest in the shower. A fruity, lively aroma fills the air. You hear birds tweeting. After the end of the programme the illumination changes back to white, the Tropical Rain with aroma and the sound are switching off.



SCOPE OF DELIVERY

A complete package for a Caribbean Storm with ceiling element chrome plated consists of the following components:

Control panel

- 1 x Control Panel "Atlantic Ocean" - Part no. 16639

Push button plate

- 1 x Push button plate 4-fold - Part no. 19014
- 1 x Bonnet 4-fold - Part no. 21032-1
- 1 x Name plate "Tropical Rain" - Part no. 17528
- 1 x Name plate "Cool Fog" - Part no. 17534
- 1 x Name plate "Atlantic Ocean" - Part no. 18596
- 1 x Name plate "Caribbean Storm" - Part no. 17527

Ceiling element incl. illumination

- 1 x ceiling element PVC white d 800 x 19 mm with 3 LED Spots RGB d 48 incl. controller SAU and 7 m cable with 7 connections for 7 nozzles - Part no. 21771-1

Nozzles

- 1 x Rain Nozzle 1/2" - Part no. 13528
- 1 x Cover Screen for Rain Nozzle - Part no. 13879
- 1 x Fog Nozzle 1/2" - Part no. 13526
- 1 x Cover Screen for Fog Nozzle - Part no. 13877
- 2 x Drizzle Nozzle - Part no. 13527
- 2 x Cover Screen for Drizzle Nozzle - Part no. 13878
- 3 x String Nozzle - Part no. 16593
- 3 x Cover Screen for String Nozzle - Part no. 13879

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4



TROPICAL THUNDER RA2 WITH CEILING ELEMENT PVC

FUNCTION DESCRIPTION

Programme 1: Tropical Rain

After the start of the programme by a button the light in the shower changes from white to red and a soft, warm Drizzle Rain patters onto the guest in the shower. You hear birds tweeting. In the following a warm String Rain is added. A fruity, lively aroma fills the air. The light changes to yellow. Now a cold Drizzle Rain cools the temperature down. An automatical yellow-green colour change starts. Then the cold Drizzle stops and the programme finishes with the warm Drizzle the aromatised String Rain and an automatical red-green colour change. After the end of the programme the illumination changes back to white, the warm Drizzle and the aromatised String Rain are switching off.

Programme 2: Tropical Storm

The programme starts with a warm Drizzle and red light. In a distance you hear the sound of waves and sea. After an adjustable time the light changes to green and a cold, refreshing fog with very fine droplets is added. A minty, cooling aroma fills the air. In the following the warm Drizzle stops and the cold Fog continues. Now a warm Tropical Rain with blue light is added and then goes over into a warm Drizzle. You hear a thunderstorm coming and you see flashlights. The thunderstorm finishes in the last step of the programme. The illumination changes to red and the programme lapses with a warm Drizzle. After the end of the programme the illumination changes back to white, the warm Drizzle is switched off.



SCOPE OF DELIVERY

A complete package for a Caribbean Storm with ceiling element chrome plated consists of the following components:

Control panel

- 1 x Control Panel "Tropical Thunderstorm" - Part no. 19290

Push button plate

- 1 x Push button plate 2-fold - Part no. 19012
- 1 x Bonnet 2-fold - Part no. 21034-1
- 1 x Name plate "Tropical Rain" - Part no. 17528
- 1 x Name plate "Tropical Storm" - Part no. 23122

Ceiling element incl. illumination

- 1 x ceiling element PVC white d 800 x 19 mm with 3 LED Spots RGB d 48 incl. controller SAU and 7 m cable with 11 connections for 11 nozzles - Part no. 21772-1

Nozzles

- 1 x Rain Nozzle 1/2" - Part no. 13528
- 1 x Cover Screen for Rain Nozzle - Part no. 13879
- 2 x Fog Nozzle 1/2" - Part no. 13526
- 2 x Cover Screen for Fog Nozzle - Part no. 13877
- 5 x Drizzle Nozzle - Part no. 13527
- 5 x Cover Screen for Drizzle Nozzle - Part no. 13878
- 3 x String Nozzle - Part no. 16593
- 3 x Cover Screen for String Nozzle - Part no. 13879

Sound

- 1 x Sound module MP3 - Part no. 18824
- 1 x Speaker - Part no. 14366-4

SHOWER TUNNEL WITH CEILING ELEMENTS PVC WITH 3 ZONES

FUNCTION DESCRIPTION

The tunnel starts with a warm, aromatised drizzle rain and red lights. Birds tweeting. At the second station a cold string rain patters on the guest in the shower, the illumination changes to blue. You hear crashing of waves. In the third zone a warm tropical rain starts, flashlights fill the room and you hear the roll of thunder. In the following, it goes back to the second station where a cold mist is spraying, a blue-green colour change is activated and you hear crashing of waves again. The programme lapses in the third station with a warm drizzle rain. The lights shines yellow and you hear a final roll of thunder. Afterwards the tunnel is ready for a restart. Only each active zone will be illuminated, the overlap time between the single zones is 3 seconds.

SCOPE OF DELIVERY

Control panel

- 1 x Control Panel Contrast Tunnel-1D - Part no. 19374-1

Push button plate

- 1 x Push button plate 1-fold - Part no. 19011
- 1 x Bonnet 1 fold ,UP 99x66x52 - Part no. 21030-1
- 1 x Name plate „Start“ - Part no. 17219

Ceiling element incl. illumination

- 1 x Ceiling element PVC white 700x700mm, 2cm with 3 LED RGB Spots MS chromed incl. controller SAU and 7m cable with 3 connections for 3 nozzles - Part no. 24948
- 2 x Ceiling element PVC white 700x700mm, 2cm with 3 LED RGB Spots MS chromed incl. controller SAU and 7m cable with 6 connections for 6 nozzles - Part no. 24946



Nozzles

- 3 x Rain Nozzles 1/2" - Part no. 13528
- 3 x Cover Screen for Rain Nozzle - Part no. 13879
- 3 x Fog Nozzle 1/2" - Part no. 13526
- 3 x Cover Screen for Fog Nozzle - Part no. 13877
- 6 x Drizzle Nozzle 1/2" - Part no. 13527
- 6 x Cover Screen for Drizzle Nozzle - Part no. 13878
- 3 x String Nozzle 1/2" - Part no. 16593
- 3 x Cover Screen for String Nozzle - Part no. 13879

Sound

- 1 x Sound module MP3 - Part no. 18824
- 2 x Speaker - Part no. 14366-4
- 2 x Transformer WDT-NT-34 RSL-V2 - Part no. 24926





SHOWER TUNNEL WITH CEILING ELEMENTS CHROME PLATED WITH 3 ZONES

FUNCTION DESCRIPTION

The tunnel starts with a warm, aromatised Tropical Rain and red lights. In the following, the Rain is replaced by a Waterfall full blade. You hear birds tweeting. At the second station, a cold Rain patters on the guest in the shower, the illumination changes to blue. In the following, a cold Mist replaces the Rain – flashlights fill the room and you hear the roll of thunder. In the third zone a warm Tropical Rain and a Waterfall full blade patter together onto the bather. The light shines red and you can hear birds tweeting again. Afterwards the tunnel is ready for a restart. Only each active zone will be illuminated, the overlap time between the single zones is 3 seconds.

SCOPE OF DELIVERY

Control panel

- 1 x Control Panel Contrast Tunnel-1D - Part no. 19374-1

Push button plate

- 1 x Push button plate 1-fold - Part no. 19011
- 1 x Bonnet 1 fold ,UP 99x66x52 - Part no. 21030-1
- 1 x Name plate „Start“ - Part no. 17219

Ceiling elements incl. illumination

- 2 x ceiling element chrome plated (Rain Shower, Waterfall full blade - 4 LED RGB Spots) - Part no. 24652
- 1 x Chrome plated ceiling element (Rain Shower, Mist - 8 LED RGB Spots) - Part no. 24980

Sound

- 1 x Sound module MP3 - Part no. 18824
- 2 x Speaker - Part no. 14366-4
- 2 x Transformer WDT-NT-34 RSL-V2 - Part no. 24926



Technique for steam rooms

A pleasant aroma and the perfect room climate are key factors for optimum pleasure in a steam room! We see ourselves as a one stop provider of technical equipment for steam rooms. Furthermore, WDT has acquired extensive knowledge about the construction and technical configuration of the cabinets.

Essential components of our scope of delivery are steam generators and fragrance pumps. You find a hygienic unobjectionable system for the nebulisation of brine solution for salt steam rooms in a separate chapter of this catalogue. Our LED illumination systems that are designed and produced especially for steam rooms round off the package with the special lighting effect your customers won't forget. Our product, Steam Shower, is a unique experience and has a similar effect as a sauna splash. With our system for "Healing Clay Steam Baths" all components of a healing clay treatment are controllable.

The conceptual design of the components is organised in kits that can individually be assembled. A simple, quick and trouble-free installation and operation is assured.

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DUFTDOS

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Fragrance pumps for the dosing of one aroma

17630-DUFTDOS-0-COMPACT

FUNCTION DESCRIPTION

Peristaltic dosing pump for the dosing of fragrances into the steam pipe of steam rooms. For external control with 230 VAC (e.g. by the steam generator or an external controller). The electrical connection of the pump must release the dosing only during the steam production.

SCOPE OF DELIVERY

- Peristaltic pump SA app. 3 l/h
- Dosing hose 3,2 x 1,6 Viton with hose holder
- Roller SA yellow
- Power supply cable with Euro plug
- Suction hose PE 4 x 1 - 1.5 m

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	app. 0,5 bar
Measures	W 65 mm x H 140 mm x D 85 mm
Weight	app. 0,6 kg

ACCESSORIES / OPTIONS

- To be ordered separately:
- Dosing set consisting of: Dosing valve stainless steel 3/8" - 4 x 1 and 3 m dosing tube PTFE 4 x 1 - Part no. 12596
 - Console with bottle 1,5 l - Part no. 13892
 - Console for 10 l canister - Part no. 14391



Photo: with option console with bottle 1,5 l
- Part. no. 13892



Dosing valve stainless steel 3/8" - 4 x 1

Fragrance pumps for the dosing of one aroma

16621-DUFTDOS-0-T

FUNCTION DESCRIPTION

Peristaltic dosing pump for the dosing of fragrances into the steam pipe of steam rooms. For external control with 230 VAC (e.g. by the steam generator or an external controller). The electrical connection of the pump must release the dosing only during the steam production. With tests switch for priming and test function.

SCOPE OF DELIVERY

- Peristaltic pump SA app. 3 l/h
- Dosing hose 3,2 x 1,6 Viton with hose holder
- Roller SA yellow
- Power supply cable 4 x 1 mm² - 3 m
- Suction hose PE 4 x 1 - 1,5 m
- Test switch

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	app. 0,5 bar
Measures	W 80 mm x H 180 mm x D 140 mm
Weight	app. 0,6 kg

ACCESSORIES / OPTIONS

- To be ordered separately:
- Dosing set consisting of: Dosing valve stainless steel 3/8" - 4 x 1 and 3 m dosing tube PTFE 4 x 1 - Part no. 12596
 - Console with bottle 1,5 l - Part no. 13892 (see photo)
 - Console for 10 l canister - Part no. 14391



Photo: with option console with bottle 1,5 l
- Part. no. 13892



Dosing valve stainless steel 3/8" - 4 x 1



Fragrance pumps for the dosing of one aroma

14168-DUFTDOS-DS

FUNCTION DESCRIPTION

Peristaltic dosing pump for the dosing of fragrances into the steam pipe of steam rooms. With intensity controller.

The dosing performance is adjusted by the pause time in between the injections by a rotary knob at the housing. The dosing time is set in the interior of the housing. The electrical connection of the pump must release the dosing only during the steam production. Dosing performance max. 3 l/h. Optionally the pump can be controlled by a push button from the steam room or by a non-volt control contact.

SCOPE OF DELIVERY

- Peristaltic pump SA app. 3 l/h
- Dosing hose 3,2 x 1,6 Viton with hose holder
- Roller SA yellow
- Power supply cable with Euro plug
- Suction hose PE 4 x 1 - 1,5 m
- Controller DS with rotary knob, installed in housing

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	app. 0,5 bar
Measures	W 80 mm x H 180 mm x D 140 mm
Weight	app. 0,6 kg

ACCESSORIES / OPTIONS

To be ordered separately:

- Dosing set consisting of: Dosing valve stainless steel 3/8" - 4 x 1 and 3 m dosing tube PTFE 4 x 1 - Part no. 12596
- Console with bottle 1,5 l - Part no. 13892
- Console for 10 l canister - Part no. 14391



Dosing valve stainless steel 3/8" - 4 x 1



Fragrance dosing systems for the dosing of several aromas

13163-1-DUFTDOS VARIO
W-4-UNPL-COMPACT

FUNCTION DESCRIPTION

Dosing system for the dosing of several fragrances into the steam pipe of steam rooms. The desired aroma is chosen by a pre-selector switch at the controller of the unit by the operator. After the setting of the aroma it is dosed in adjustable intervals. The dosing performance is adjusted by the pause time and the dosing time by rotary knobs at the housing. Operation only when steam is produced.

SCOPE OF DELIVERY

- 4 x Peristaltic pump SA app. 3 l/h with dosing hoses 3,2 x 1,6 Vi with hose holder and suction hose (PE 0,8 m)
- Controller UNPL for pause- and dosing time
- 4 x aroma bottle à 1,5 l
- Console with the components pre-installed
- 4 x dosing valve stainless steel 3/8" - 4 x 1
- 4 x 3 m dosing tube PTFE 4 x 1

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	6 W
Back pressure max.	app. 0,5 bar
Measures	W 600 mm x H 500 mm x D 200 mm
Weight	app. 5 kg

ACCESSORIES / OPTIONS

- Available also for 2 or 3 aromas (on demand)





Fragrance dosing systems for the dosing of several aromas

19694-DUFTDOS VARIO 4 T-SA-COMPACT

FUNCTION DESCRIPTION

Dosing system for the dosing of several fragrances into the steam pipe of steam rooms. The desired aroma is chosen by the user of the steam room by a push-button. The aroma intensity can be set individually for each aroma at the controller. During the dosing of the desired aroma the other aroma pumps are locked. After the lapse of the programme the dosing is locked for 3 minutes.

SCOPE OF DELIVERY

- 4 x Peristaltic pump SA app. 3 l/h with dosing hoses 3,2 x 1,6 Vi with hose holder and suction hose (PE 0,8 m)
- Controller EDS1 installed in housing
- 4 x aroma bottle à 1,5 l
- Console with the components pre-installed
- 4 x Dosing valve stainless steel 3/8" - 4 x 1
- 4 x 3 m dosing tube PTFE 4 x 1

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	10 W
Back pressure max.	app. 0,5 bar
Measures	W 600 mm x H 500 mm x D 200 mm
Weight	app. 5 kg

ACCESSORIES / OPTIONS

To be ordered separately:

- Push button plate with bonnet for flush mounting
- Available also for 2 or 3 aromas (on demand)



TECHNIQUE FOR STEAM SHOWER

FUNCTION DESCRIPTION

The Steam Shower is a unique experience in a steam room. Compressed air is blown into the steam room through nozzles. The air nozzles are installed in the ceiling of the cabinet, directly over the seats. After the start of the attraction, the hot air layers from the top of the steam room stream down onto the guests below. For the bather the effect feels like a sauna splash and offers a unique Wellness experience. The steam shower consists of a pneumatic controller, an oil-free compressor with an expansion tank, buttons and nozzles.

SCOPE OF DELIVERY

A complete package for a Steam Shower consists of the following components:

Control panel consisting of:

- Microprocessor controller in housing
- Potis for the adjustment of the single parameters
- Power socket for the connection of the compressor
- Completely tubed and pre-wired on PP board grey
- Ball valve 1/2"
- Pneumatic pressure gauge with water separator
- Connection compressed air-buffer tank
- Connection compressed air-compressor
- Solenoid valve(s) complying with the number of nozzles/ seats

Stainless steel pressure tank

- 20 l, pre-mounted on the backside of the PP board

Oil-free diaphragm compressor

- 230V/50 Hz (60 Hz)
- Performance 49 l/min at 5 bar
- Drive power 0,45 kW
- Pressure tank 10 l
- Control valve 1/8" normally open
- Measurements
360 (W) x 390 (L) x
420 (H) mm
- Weight: 17 kg
- Sound: 58 dB(A)



Push button plate 1-fold

- With bonnet for flush mounting and name plate for the start of the programme. Quantity of buttons complying with the no. of seats in the cabinet

Drizzle Nozzle

- Quantity of nozzles complying with the no. of seats in the cabinet



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	550 W (incl. 450 W compressor)

Control panel 1- and 2-fold

Measures/Weight	W 50 cm x H 50 cm x D 45 cm / 7,5 kg
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Control panel 3- and 4-fold

Measures/Weight	W 65 cm x H 50 cm x D 45 cm / 8 kg
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TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Air tubes to the nozzles (according to the no. of seats in the cabinet)
- Temperature range in plants room: +5 to +40 °C
- Humidity in plants room: max. 80% rel. humidity
- Due to the noise emission of the compressor we recommend to do a noise damping installation





LED SPOTS RGB OR WARM WHITE AND MOUNTING SLEEVES

FUNCTION DESCRIPTION

The spots have been especially developed for the use in Wellness areas and steam rooms. The protection class is IP65 and they are operated with low voltage. Furthermore the light bulb can be exchanged easily when the spots are already installed and sealed in. The spots are available in RGB or warm white. An easy installation is ensured as the spots are prepared for plug and play.

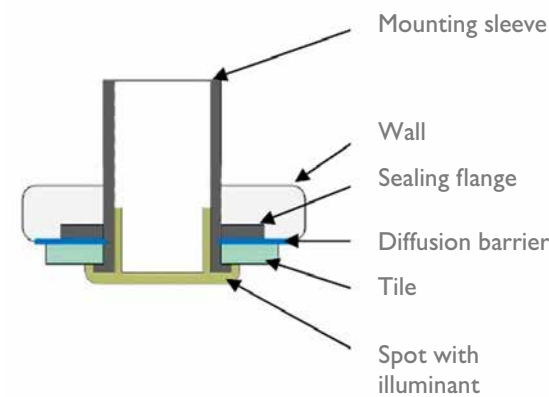
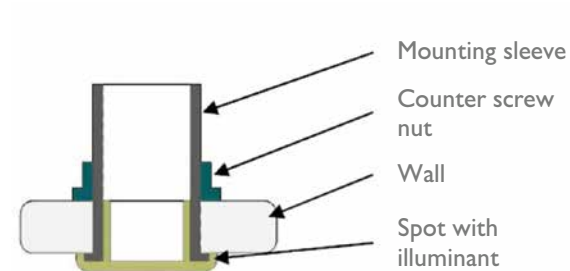
SCOPE OF DELIVERY

System for pre-coated, GFK or Aluminum surface:

- LED spots RGB or warm white IP65 brass chrome plated, stainless steel or alu coated (colour on demand), lense beamless
- Installation boring 42 mm
- Cover 60 mm outer diameter
- Mounting sleeve D 42 x 110 (40) mm with counter nut
- Incl. connection cable 20 cm JST

System for tiled surfaces:

- LED spots RGB or warm white IP65 brass chrome plated, stainless steel or alu coated (colour on demand), lense beamless
- Installation boring 42 mm
- Cover 60 mm outer diameter
- Mounting sleeve D 42 x 110 (40) mm with sealing flange
- Incl. connection cable 20 cm JST



TECHNICAL DATA

	Warm white	RGB
Control signal	350 mA constant current	
Power supply	1 W	3 x 1 W
Light colours	Warm white 2700°K	Red - Green - Blue
Installation boring	42 mm	
Weight	app. 0,25 kg	
Installation depth	55 mm or 125 mm (depending on mounting sleeve)	
Diameter of the cover	60 mm	

ACCESSORIES / OPTIONS

- The spots are connected in series. For the connection of the single spots there are extension cables available: 1,5 - 2,5 - 5,0 - 7,0 m



LED RGB CONTROLLER

FUNCTION DESCRIPTION

Controller for LED spots RGB with an operation current of 350 mA. You can connect up to 10 pieces of 3 x 1 W spots to one RGB controller. The controller can realise 15 different light programmes in combination with the RGB spots for example: White, Red, Green, Blue, Red-Green colour change, Blue-Green colour change, Red-Green-Blue colour change, Flashlights etc. The setting of the light programmes is done by a code switch. Optionally the light controller can be controlled externally by a four-digit digital code. The connected spotlights can be dimmed by a 2nd poti at the control housing. If more than 10 spots are required the controller can be extended by „Slave“ module(s). These modules are then connected by a data BUS. This connection leads to synchronic colour effects of the whole illumination.

SCOPE OF DELIVERY

- LED RGB control board installed in housing
- Code switch for the setting of the desired light programme
- Poti for the manual dimming of the connected spotlights
- 7 m cable from the controller to the 1st spot
- 1,5 m power supply cable with Euro plug



TECHNICAL DATA

Electrical supply	230 V/AC 50-60 Hz
Power supply	42 VA/0,4 A
Operation temperature range	0 to +50 °C
Weight	1,5 kg
Measures	W 13 cm x H 18 cm x D 9 cm

ACCESSORIES / OPTIONS

- Controller with 700 mA
- Slave controller for external control/ colour choice by a 4 digit HEX code

TRANSFORMER FOR LED SPOTS WARM WHITE

FUNCTION DESCRIPTION

Transformer for LED spots warm white with an operation current of 350 mA. You can connect up to 6 pieces of 1 W spots to one transformer (max. 10 spots to dimmable transformer). The transformer can be used for warm white or for static light colours (R - G - B). The pre-setting of the static light colours is realised by the wiring (standard warm white). The possible dimming is realised either by a poti at the control housing, or by an external 1-10 V dimming signal. If more than 6 resp. 10 spots are required, a second light circuit has to be installed.

SCOPE OF DELIVERY

- Transformer installed in housing
- Poti for the manual dimming or connector for external dimming signal of the connected spotlights (in case of option dimming)
- 7 m cable from the transformer to the 1st spot
- 1,5 m power supply cable with Euro plug

TECHNICAL DATA

	Dimmable transformer	Not dimmable transformer
Electrical supply	230 V/AC 50-60 Hz	
Power supply	35 VA / 0,35 A	9 VA / 0,35 A
Operation temperature range	0 until +50 °C	
Weight	1,2 kg	0,46 kg
Measures	W 13 cm x H 23 cm x D 11 cm	W 10 cm x H 8 cm x D 6,5 cm





LINELIGHTS / LIGHT BATTENS

FUNCTION DESCRIPTION

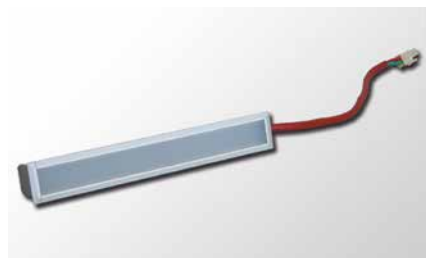
LED linelights RGB with an operating voltage of 12 V/DC. Ideal for indirect illumination and illumination under the benches of steam rooms. Available with frame (for the installation in visible areas) and aluminum profile (for indirect illumination). Linelights are produced and tested according to order in the desired length.

SCOPE OF DELIVERY

The linelights are available in 2 versions:

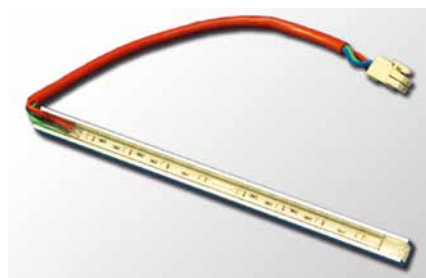
LED Linelight RGB frame IP 64

- Equipped with SMD-RGB LEDs, sealed with transparent 2-component resin
- Aluminium profile: W = 30 x H = 32 x L = XX mm
- Cut-out: W = 24 x H = 32 x L = XX mm
- Temperature range: -20°C until +60°C max.
- Incl. connection cable and plug
- Available lengths from 119 mm up to 3000 mm



LED Linelight RGB Aluprofile IP 64

- Equipped with SMD-RGB LEDs, sealed with transparent 2-component resin
- Aluminium profile: B = 12 x H = 12 x L = XX mm
- Cut-out: W = 12 x H = 12 x L = XX mm
- Temperature range: -20°C until +60°C max.
- Incl. connection cable and plug
- Available lengths from 119 mm up to 3000 mm



ACCESSORIES / OPTIONS

- Also available in warm white with app. 2700 K
- Extension cables incl. connector
- Y-cable 4-poles incl. connector

CONTROLLER FOR LED LINELIGHTS RGB / TRANSFORMER FOR LINELIGHTS

FUNCTION DESCRIPTION

Controller for LED linelights RGB with an operation voltage of 12 V/DC (optionally 24 V/DC). You can connect up to app. 5 m of linelights (max. 105 W) to one controller. The controller can realise 15 different light programmes in combination with the RGB linelights: White, Red, Green, Blue, Red-Green colour change, Blue-Green colour change, Red- Green-Blue colour change, Flash-lights etc. The setting of the light programmes is done by a code switch at the housing. Optionally the light controller can be controlled externally by a four-digit digital code. The connected spotlights can be dimmed by a 2nd poti at the control housing.

If more than 105 W are required the controller can be extended by an extension module.

SCOPE OF DELIVERY

- LED RGB control board installed in housing
- Code switch for the setting of the desired light programme
- Poti for the manual dimming of the connected spotlights
- 1,5 m power supply cable with Euro plug

TECHNICAL DATA

Electrical supply	230 V/AC 50-60 Hz
Power supply	150 VA/0,8 A
Operation temperature range	0 until +40 °C
Weight	2,8 kg
Measures	W 26 cm x H 22 cm x D 11 cm

ACCESSORIES / OPTIONS

- Transformer for static colours only (Red - Green - Blue - Warm white)
- Slave controller for external control/ colour choice by a 4 digit HEX code
- Controller for 24 V/DC linelights
- Controller for the synchronisation of spot- and linelights: 1 x output 12 V/DC respectively 24 V/DC for linelights/ 1 x output 350 mA for spotlights





HYGROMATIK FLEXLINE

FUNCTION DESCRIPTION

The HygroMatik FlexLine represents a new generation of steam generators which consists of a basic model that can be expanded to create an individual solution suitable for all steam requirements. In order to make this flexibility available to our customers quickly, we have developed a modular system. FlexLine is available as an electrode as well as a heater element steam generator – depending on your water quality and the required degree of control accuracy.

SCOPE OF DELIVERY

Large surface electrodes

Electrode steam generators are an optimal solution when simple and reliable steam production is required. Due to the high amount of material, the solid full-surface electrodes of HygroMatik are particularly durable and are very well suited for use with tap water. The electrodes have to be exchanged less often, which keeps the maintenance costs low. When using steam generators that work with electrodes the electrical conductivity of the water in the supply has to be between 250-800 $\mu\text{S}/\text{cm}$ to ensure an optimal function.



Resistor type heater elements

Steam cylinders with resistance heater elements made of highly corrosive-resistant alloy are suitable for a wide variety of water qualities, especially for treated water. They offer an extremely high level of control accuracy and ensure a virtually continuous and maintenance-free operation.



Excellent ease of operation

All HygroMatik FlexLine units are equipped with a capacitive 3.5" touch screen whereby operation and programming is selected via a flat and intuitive menu structure analogous to modern smartphone logic. In addition to this, subsequent software updates are quickly and easily possible via USB stick.



FLEXLINE ELECTRODES TECHNICAL DATA

A higher steam output is possible by connecting units together.

Type		FLE05	FLE10	FLE15	FLE20	FLE25	FLE30	FLE40	FLE50	FLE65	FLE80	FLE100	FLE130		
Steam output	[kg/h]	4,8-5,2	9,5-10,4	14,3-15,6	19,0-20,8	23,9-26,1	28,5-31,2	38,2-41,7	47,8-52,2	62,0-67,5	76,4-83,4	95,4-104,2	124,0-135,4		
Electrical connection *		380-415 V / 3 / 50-60 Hz													
Rated power	[kW]	3,6-3,9	7,1-7,8	10,7-11,7	14,3-15,6	17,9-19,5	21,4-23,4	28,6-31,3	35,9-39,2	46,3-50,6	2×28,6-31,3	2×35,9-39,2	2×46,3-50,6		
Rated current	[A]	5,4	10,8	16,3	21,7	27,2	32,5	43,5	54,5	70,4	2×43,5	2×54,5	2×70,4		
Fuse **	[A]	3×10	3×16	3×20	3×25	3×32 (35)	3×40	3×50	3×63	3×80	6×50	6×63	6×80		
Control voltage		220-240 V / 1 / N / 50-60 Hz													
Steam hose connection	[mm]	1×40						1×40 mit Y		2×40		2×40 mit Y		4×40	
Unit size ***	Height [mm]	535			695			750		785		750		785	
	Width [mm]	540			540			580		640		1090		1170	
	Depth [mm]	320			320			355		420		355		420	
Water installation		Tap water of varying qualities, 1 to 10 bar with 3/4" connection													

FLEXLINE HEATERS TECHNICAL DATA

Type		FLH03	FLH06	FLH09	FLH15	FLH25	FLH30	FLH40	FLH50	FLH80	FLH100
Steam output	[kg/h]	2,7-3,3	5,5-6,5	8,2-9,8	13,7-16,4	22,7-27,1	27,4-32,7	36,5-43,5	45,5-54,3	73,0-87,0	91,0-108,6
Electrical connection *		220-240 V/ 1 / N / 50-60 Hz	380-415 V / 3 / 50-60 Hz								
Rated power	[kW]	2,1-2,4	4,1-4,9	6,2-7,3	10,3-12,3	17,1-20,3	20,6-24,5	27,3-32,6	34,1-40,7	2x27,3-32,6	2x34,1-40,7
Rated current	[A]	9,4-10,2	10,7-11,7	16,0-17,5	15,6-17,1	25,9-28,3	31,3-34,1	41,5-45,4	51,8-56,6	2x41,5-45,4	2x51,8-56,6
Fuse **	[A]	1x16	3x16	3x20	3x20	3x32 (35)	3x35	3x50	3x63	6x50	6x63
Control voltage		220-240 V / 1 / N / 50-60 Hz									
Steam hose connection	[mm]	1x40					2x40			4x40	
Unit size ***	Height [mm]	535			695		785			785	
	Width [mm]	540			540		640			1170	
	Depth [mm]	320			320		420			420	
Water installation		Fully demineralised water / cleaned condensate: 1–10 bar, 13mm hose partially softened water / tap water of varying qualities 1–10 bar, for 3/4" external thread									

We reserve the right to make technical changes.

* Other voltages upon request.

** 1,1-fold power consumption after full blowdown.

Observe actuation characteristics of automatic circuit-breakers.
If necessary, select the next highest circuit-breaker level.

*** External width and depth dimensions.
Height including drainage nozzles





TECHNIQUE FOR HEALING CLAY STEAM BATH



FUNCTION DESCRIPTION

The controller controls the complete treatment of a „Healing Clay Steam Bath“ and all necessary components: Steam generator, exhaust fan, aroma pump, illumination, solenoid valve for shower function and sound. The treatment is structured into three time steps. The duration of the time steps can be adjusted individually by pots at the control housing.

Treatment time:

The programme is activated by the start push-button on the outside of the cabinet. Then the room light is switched-off and the effect light (e.g. fiber optics or LED illumination for light therapy) is switched-on. During this time the healing clay treatment (scrubbing and drying) is done.

Steam time:

Afterwards the steam generator is activated and starts to produce steam on full power. The cabinet is filled with steam and the dry healing clay on the body gets wet.

Shower time:

The illumination changes to red. A warm Drizzle Rain sprays on each guest from nozzles above the seats. This procedure is necessary for the pre-cleaning. The treatment stops after the shower. The effect light is switched-off, the room light and the exhaust fan are switched-on. The controller is ready for the next treatment.

There is the possibility to operate the controller only on steam room operation. In this operation mode the controller controls the cabinet like a normal steam room with steam production, exhaust fan and aroma dosing.

SCOPE OF DELIVERY

A complete package for a „Healing Clay Steam Bath“ consists of the following components:

Microprocessor controller in housing:

- Digital thermostat inclusive temperature sensor PT100
- Pots for the adjustment of the single parameters (treatment-, steam-, shower time)
- Power socket for the connection of the aroma pump
- Completely pre-wired on PP board grey

Water part:



(Photo: water part 1/2“ for up to 3 seats/ nozzles)

- 2 x Supply (warm/cold) with pre-filter and ball valve female thread
- Thermo mixer JRG with non-return valves
- Solenoid valve(s) for the automatic shower
- Option: unit for thermal disinfection
- Completely tubed and pre-mounted on PP board grey

The dimensioning of the supplies of the water part and the number of solenoid valves complying with the number of seats/ nozzles in the cabinet!

Push button plate 1 fold

- With bonnet for flush mounting and name plate for the start of the programme

Drizzle Nozzle

- For the shower function. Quantity of nozzles complying with the no. of seats in the cabinet

LED illumination

- For steam rooms

Fragrance dosing pump

- DUFTDOS-DS

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	500 W
Control contact / -output for steam generator	non-volt contact
Measures	W 50 cm x H 50 cm x D 20 cm
Weight	app. 7,5 kg

Water part 1/2“ for up to 3 seats/nozzles

Water supply	2 x 1/2“ female thread
Outlet	1 x solenoid valve 1/2“
Measures/Weight	W 20 cm x H 60cm x D 13cm / 5 kg

Water part 3/4“ for up to 6 seats/nozzles

Water supply	2 x 3/4“ female thread
Outlet	1 x solenoid valve 3/4“
Measures/Weight	W 25 cm x H 65 cm x D 15 cm / 6 kg

Water part 1“ for up to 12 seats/nozzles

Water supply	2 x 1“ female thread
Outlet	2 x solenoid valve 3/4“
Measures/Weight	W 30 cm x H 70 cm x D 18 cm / 7,5 kg

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panels
- Power supply
- Water connection cold according to no. of nozzles
- Water connection warm according to no. of nozzles
- Needed pressure: 3 bar dynamic
- Water quantity: 6 l/min per nozzles (if Drizzle Nozzles will be used)
- Tubing to the nozzles

ACCESSORIES / OPTIONS

To be ordered separately:

- Sound module
- 0 - 10 V control
- Unit for thermal disinfection
- Steam generator
- Exhaust fan





DOSING SET FOR FRAGRANCE DOSING

Dosing set part no. 12596 consisting of non-return valve (dosing valve VA 3/8" - 4 x 1) stainless steel and dosing tube (3 m tube PTFE 4 x 1) for a safe connection of the aroma pump with the steam tube. The non-return valve eases necessary maintenance of the pump, as the steam generator does not have to be switched-off in this case.



EXHAUST FAN RRK

Radial circular in-line fan for the direct installation in the exhaust tubing of steam rooms. Housing made of impact-resistant plastics with round connector.

- Humidity resistant
- Housing made of reinforced plastics
- Performance 230m³/h - free-blowing
- Only vertical installtion possible due to condense water!

TECHNICAL DATA

- mm: 100
- rpm: 2150
- kW: 0,0290
- db (A): 62



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PUSH BUTTON FOR STEAM ROOMS

Function description

The push button has been especially developed for the use in Wellness areas and steam rooms. The protection class is IP65. Furthermore the button can be exchanged easily when the unit is already installed and sealed in. The button is available with blue or red ring illumination or without illumination.

Scope of delivery

- Piezo push button with ot without LED-ring illumination 12-24 V/DC
- Cover brass chrome plated
- plated 60 mm outer diameter
- Installation boring 42 mm
- 7 m cabel



System for tiled surfaces:

- Mounting sleeve D 42 x 110 (40) mm with sealing flange

System for pre-coated, GFK or Aluminum surface:

- Mounting sleeve D 42 x 110 (40) mm with counter nut

WELLNESS

CONSOLES FOR AROMA PUMPS/-CANISTERS

Consoles to take an aroma pump and an aroma canister/-bottle. The consoles are available for canisters up to 10 l in two different versions:

Console with wide neck bottle 1,5 l

Part no. 13892 (see photo):

Measures H 470 mm x W 195 mm x D 160 mm

Console for 10 l canisters (canister excl.)

Part no. 14391:

Measures H 600 mm x W 235 mm x D 240 mm



STEAM NOZZLE - STEAM INLET LD

Steam inlet for the mixing and inserting of steam and fresh air into the steam room. For a dense steam appearance and a lower temperature of the inserted steam:

- Mixing tube made of stainless steel V4A with connections for fresh air and steam
- Diameter 110 mm, Installation length 280 mm
- Cover made of stainless steel V4A 130 x 130 mm with fixation screws



Technique for Saunas

Only an aromatic sauna splash creates a perfect sauna experience!

Our automatic water and aroma splash system for sauna heaters is an important product of our portfolio. An automatic sauna splash helps to increase the efficiency and safety of the operation of a sauna in which the splash is offered. The splash procedure takes place reliably in defined time intervals and with a specified intensity. Due to this fact, an overdosing of fragrance is avoided. Furthermore, the water quantity of the splash can be easily adapted to the capacity of the sauna heater. This helps to prevent unpleasant water puddles below the heater and unnecessary wear on the sauna stove.

Our LED illumination systems that are designed and produced especially for saunas round off the package with the special lighting effect your customers will not forget. A glass rod decouples the LED illuminant from the hot sauna temperatures. This system allows the use of up-to-date LED techniques in saunas.

Page:

106 Automatical sauna splash
SAUNA-PLUS 8 BASIC
SAUNA-PLUS 8

108 LED illumination



SAUNA-PLUS 8 BASIC

FUNCTION DESCRIPTION

Dosing system for an automatic sauna-splash with fragrance and water. The sauna-splash-systems has 2 operation modes: cyclic- and push-button operation. An external control via non-volt- or 230V signal is possible. Operation and visualization via 5-line LC display and three buttons. Fault indications are displayed in plain text. Setting possibilities: switch-on delay, water quantity, fragrance intensity, cycle time for cyclic operation and locking time for push-button operation.

The system is designed for max. one aroma pump.

SCOPE OF DELIVERY

- Controller NT35 with 5-line LC display installed in housing
- Peristaltic pump Sa for fragrance concentrate
- Mounting board with console for max. 5l fragrance canister
- Supply with ball valve 1/2" female thread and pre-filter
- Tube aerator according to EN1717
- Solenoid valve 1/4" VA
- Pressure monitoring
- Dosing tube with dosing valve 3/8" stainless steel
- Outlet 3/8" female thread
- Splash sprinkler 3/8" female thread

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	max. 50 W
Water supply	1/2" IG
Water outlet	3/8" IG
Water quantity	app. 2,5 l/min
Pre-pressure min.	1,5 bar
Pre-pressure max.	5 bar
Measures	W 47 cm x H 71 cm x D 24 cm
Weight	app. 15 kg
Temperature range	+10°C until +35°C
Protection class	IP44



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Needed pressure: 1,5 bar dynamic
- Water quantity: 2,5 l/min
- 3/8" tubing to the sprinkler
- Drain in the plants room

The unit has to be installed on a higher level than the sprinkler. If this is not possible or if the tubing tends upwards, a non-return valve EN1717 has to be installed in the supply - in this case we recommend to use the sauna connection set - see options!

ACCESSORIES / OPTIONS

To be ordered separately:

- Grommet part-no. 15214
(Photo shows sprinkler and grommet)



- Splash sprinkler available in special length and shapes
- Push button plate
- Sauna splash connection set consisting of:
 - 10 meter PTFE dosing tube
 - tube adapter Sauna Plus 3/8" x 6 x 1
 - tube adapter splash nozzle 3/8" x 6 x 1
 - 3/8" angle female/male thread

SAUNA-PLUS 8

FUNCTION DESCRIPTION

Dosing system for an automatic sauna-splash with fragrance and water. The system is available with one up to four aroma pumps. The sauna-splash-systems has 3 operation modes: cyclic-, clock timer- and push-button operation. The operation and splash times can be saved individually in the integrated week-program. Operation and visualisation via 3.2" full colour Touch-Display. In addition to the standard settings like water-, aroma quantity and splash time the system offers many additional adjustable parameters. Different aromas can be assigned to single splashes in individual quantities for example. Furthermore a splash pre-indication can be connected or the splash can be combined with light and sound effects. Another feature is to send a signal from the system to the heater to activate the pre-heating before the splash. The controller includes several password protected authorisation levels. Each level allows different settings.

SCOPE OF DELIVERY

- Controller with 3.2" Touch installed in housing
- Peristaltic pump SA for fragrance concentrate
- Mounting board with console for max. 5 l fragrance canister
- Supply with ball valve 1/2" female thread and pre-filter
- Tube aerator according to EN1717
- Solenoid valve 1/4" VA
- Pressure monitoring
- Dosing tube with dosing valve 3/8" stainless steel
- Outlet 3/8" female thread
- Splash sprinkler 3/8" female thread
- Design cover

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	max. 50 W
Water supply	1/2" IG
Water outlet	3/8" IG
Water quantity	app. 2,5 l/min
Pre-pressure min.	1,5 bar
Pre-pressure max.	5 bar
Measures	W 47 cm x H 71 cm x D 24 cm
Weight	app. 15 kg
Temperature range	+10°C until +35°C
Protection class	IP44



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Water connection cold 1/2"
- Needed pressure: 1,5 bar dynamic
- Water quantity: 2,5 l/min
- 3/8" tubing to the sprinkler
- Drain in the plants room

The unit has to be installed on a higher level than the sprinkler. If this is not possible or if the tubing tends upwards, a non-return valve EN1717 has to be installed in the supply - in this case we recommend to use the sauna connection set - see options!

ACCESSORIES / OPTIONS

To be ordered separately:

- Grommet part-no. 15214
(Photo shows sprinkler and grommet)



- Splash sprinkler available in special length and shapes
- Effect illumination
- MP3-Player +loudspeaker
- Push button plate
- Sauna splash connection set consisting of:
 - 10 meter PTFE dosing tube
 - tube adapter Sauna Plus 3/8" x 6 x 1
 - tube adapter splash nozzle 3/8" x 6 x 1
 - 3/8" angle female/male thread





LED RGB SPOTS AND MOUNTING SLEEVES

FUNCTION DESCRIPTION

The spots have been especially developed for the use in saunas. The protection class is IP65 and they are operated with low voltage. Furthermore the light bulb can be exchanged easily when the spots are already installed and sealed in. The spots are available in RGB or warm white. An easy installation is ensured as the spots are prepared for plug and play.

SCOPE OF DELIVERY

- LED spots RGB 3 x 1 Watt multicolour IP65 chrome plated brass, stainless steel or alu coated (colour on demand)
- Lense and glass rod (optical fiber)
- Installation boring 50 mm
- Cover 60 mm outer diameter
- Mounting sleeve Alu D 50 x 40 mm with crawls
- Incl. connection cable 20 cm JST
- PTFE temperature barrier
- Cooling element

ACCESSORIES / OPTIONS

- The spots are connected in series. For the connection of the single spots there are extension cables available: 1,5 - 2,5 - 5,0 - 7,0 m

TECHNICAL DATA

	Warm white	RGB
Control signal	350 mA constant current	
Power supply	1 W	3 x 1 W
Light colours	Warm white 2700°K	Red - Green - Blue
Installation boring	50 mm	
Weight	app. 0,45 kg	
Installation depth	150 mm	
Dieameter of the cover	60 mm	



ASSEMBLY:

LED RGB CONTROLLER

FUNCTION DESCRIPTION

Controller for LED spots RGB with an operation current of 350 mA. You can connect up to 10 pieces of 3 x 1 W spots to one RGB controller. The controller can realise 15 different light programmes in combination with the RGB spots for example: White, Red, Green, Blue, Red-Green colour change, Blue-Green colour change, Red-Green-Blue colour change, Flashlights etc. The setting of the light programmes is done by a code switch. Optionally the light controller can be controlled externally by a four-digit digital code. The connected spotlights can be dimmed by a 2nd poti at the control housing. If more than 10 spots are required the controller can be extended by „Slave“ module(s). These modules are then connected by a data BUS. This connection leads to synchronic colour effects of the whole illumination.

SCOPE OF DELIVERY

- LED RGB control board installed in housing
- Code switch for the setting of the desired light programme
- Poti for the manual dimming of the connected spotlights
- 7 m cable from the controller to the 1st spot
- 1,5 m power supply cable with Euro plug

TRANSFORMER FOR LED SPOTS WARM WHITE

FUNCTION DESCRIPTION

Transformer for LED spots warm white with an operation current of 350 mA. You can connect up to 6 pieces of 1 W spots to one transformer (max. 10 spots to dimmable transformer). The transformer can be used for warm white or for static light colours (R - G - B). The pre-setting of the static light colours is realised by the wiring (standard warm white). The possible dimming is realised either by a poti at the control housing, or by an external 1-10 V dimming signal.

If more than 6 resp. 10 spots are required, a second light circuit has to be installed.

SCOPE OF DELIVERY

- Transformer installed in housing
- Poti for the manual dimming or connector for external dimming signal of the connected spotlights (in case of option dimming)
- 7 m cable from the transformer to the 1st spot
- 1,5 m power supply cable with Euro plug

TECHNICAL DATA

	Dimmable transformer	Not dimmable transformer
Electrical supply	230 V/AC 50-60 Hz	
Power supply	35 VA / 0,35 A	9 VA / 0,35 A
Operation temperature range	0 until +50 °C	
Weight	1,2 kg	0,46 kg
Measures	W 13 cm x H 23 cm x D 11 cm	W 10 cm x H 8 cm x D 6,5 cm



TECHNICAL DATA

Electrical supply	230 V/AC 50-60 Hz
Power supply	42 VA/0,4 A
Operation temperature range	0 until +50 °C
Weight	1,5 kg
Measures	W 13 cm x H 18 cm x D 9 cm

ACCESSORIES / OPTIONS

- Controller with 700 mA
- Slave controller for external control/ colour choice by a 4 digit HEX code





LINELIGHTS / LIGHT BATTENS

FUNCTION DESCRIPTION

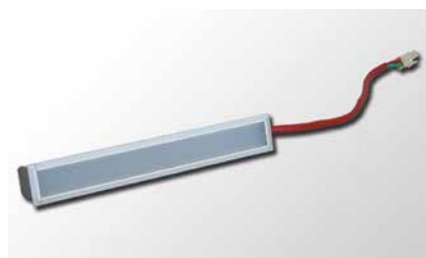
LED linelights RGB with an operating voltage of 12 V/DC. Ideal for indirect illumination and illumination under the benches of steam rooms. Available with frame (for the installation in visible areas) and aluminum profile (for indirect illumination). Linelights are produced and tested according to order in the desired length.

SCOPE OF DELIVERY

The linelights are available in 2 versions:

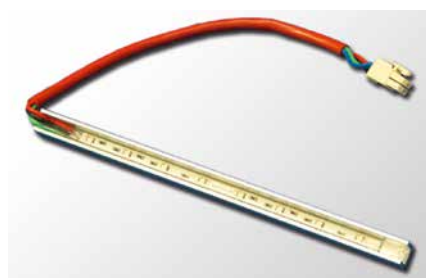
LED Linelight RGB frame IP 64

- Equipped with SMD-RGB LEDs, sealed with transparent 2-component resin
- Aluminium profile: W = 30 x H = 32 x L = XX mm
- Cut-out: W = 24 x H = 32 x L = XX mm
- Temperature range: -20°C until +60°C max.
- Incl. connection cable and plug
- Available lengths from 119 mm up to 3000 mm



LED Linelight RGB Aluprofile IP 64

- Equipped with SMD-RGB LEDs, sealed with transparent 2-component resin
- Aluminium profile: B = 12 x H = 12 x L = XX mm
- Cut-out: W = 12 x H = 12 x L = XX mm
- Temperature range: -20°C until +60°C max.
- Incl. connection cable and plug
- Available lengths from 119 mm up to 3000 mm



ACCESSORIES / OPTIONS

- Also available in warm white with app. 2700 K
- Extension cables incl. connector
- Y-cable 4-poles incl. connector

CONTROLLER FOR LED LINELIGHTS RGB / TRANSFORMER FOR LINELIGHTS

FUNCTION DESCRIPTION

Controller for LED linelights RGB with an operation voltage of 12 V/DC (optionally 24 V/DC). You can connect up to app. 5 m of linelights (max. 105 W) to one controller. The controller can realise 15 different light programmes in combination with the RGB linelights: White, Red, Green, Blue, Red-Green colour change, Blue-Green colour change, Red- Green-Blue colour change, Flash-lights etc. The setting of the light programmes is done by a code switch at the housing. Optionally the light controller can be controlled externally by a four-digit digital code. The connected spotlights can be dimmed by a 2nd poti at the control housing.

If more than 105 W are required the controller can be extended by an extension module.

SCOPE OF DELIVERY

- LED RGB control board installed in housing
- Code switch for the setting of the desired light programme
- Poti for the manual dimming of the connected spotlights
- 1,5 m power supply cable with Euro plug

TECHNICAL DATA

Electrical supply	230 V/AC 50-60 Hz
Power supply	150 VA/0,8 A
Operation temperature range	0 until +40 °C
Weight	2,8 kg
Measures	W 26 cm x H 22 cm x D 11 cm

ACCESSORIES / OPTIONS

- Transformer for static colours only (Red - Green - Blue - Warm white)
- Slave controller for external control/ colour choice by a 4 digit HEX code
- Controller for 24 V/DC linelights
- Controller for the synchronisation of spot- and linelights: 1 x output 12 V/DC respectively 24 V/DC for linelights/ 1 x output 350 mA for spotlights





Nebulisation of brine solution

The positive influence of brine and salt for human beings is undisputed in general as well as in medical science. It has a healing effect in case of skin and respiratory diseases. Mankind has used the mineral (mainly dissolved as brine solution) since thousands of years as a cure.

Our systems for the nebulisation of brine solution are mainly used in wellness applications to create a salty sea climate in steam rooms, infrared cabins, salt grottos etc. In the context of a brine therapy the usage of such applications can be a supporting element.

As the nebulised brine solution is breathed in as an aerosol it is imperatively necessary, that the used system is hygienically unobjectionable and that bacterial impact will be prevented. For this reason the brine solution of WDT is sterilised with hydrogen peroxide and packed air-tight. Furthermore a disinfection programme to keep the system absolutely clean is included.

Besides the high hygienical standards our systems are characterised by an easy installation and operation.

Page:

113 For steam rooms

114 For dry rooms

SOLDOS-V3

FUNCTION DESCRIPTION

Nebulisation of brine solution to create a salty sea climate for steam rooms. The SOLDOS is spraying fine nebulised, sterile brine solution into steam rooms. After a short time you get a salty sea climate in the room. The dosing capacity is sufficient for rooms with a floor space of app. 25 m². The brine solution is primed out of an air sealed bag (Politainer). This bag interfolds when the liquid brine solution is taken out. This procedure prevents the contamination of the solution with germs of the ambient air. Then it is pressed through a very fine nozzle by a high-pressure solenoid diaphragm pump and nebulised. Furthermore a disinfection system is integrated. Operation via 3,2" full colour Touch display with a multitude of possibilities:

- Operation modes: cyclic operation, push button operation or operation via external control
- Week-program for the definition of the individual operation times per day
- Combination of the salt spray with light and sound effects
- Pressure monitoring for filling level brine and blockage of the nozzle
- Day counter for the indication of a possible necessary disinfection and visual description of this procedure
- Definition of several authorisation levels. Each level allows different settings

SCOPE OF DELIVERY

- Controller with 3,2" Touch installed in housing
- Motor diaphragm pump, low noise
- Mounting board with console for brine bag
- Nozzle stainless steel V4A with cover screen PE
- Mounting sleeve and 5 m dosing tube PTFE
- Disinfection set with disinfection tablet, mixing bottle and recipient
- 5 kg (resp. 1 kg for private use) sterile brine solution in Politainer
- Design cover

TECHNICAL DATA

Area of application	Steam rooms
Electrical supply	230 V/AC 50 Hz
Power supply	350 W
Measures	W 47 cm x H 71 cm x D 24 cm
Empty weight / operational weight	app. 15 kg / 20 kg
Temperature range	+10°C until +35°C
Protection class	IP44
Nebulisation performance brine	app. 100 ml/min



Nozzle and grommet

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of system
- Power supply

POINTS TO BE CONSIDERED BEFORE THE INSTALLATION:

- Before the installation of a SOLDOS all materials have to be checked on their corrosion resistance against the saline mixture of water and air both in the adequate steam cabinet and additionally in the ventilation pipework.
- The SOLDOS is not licensed for medical purpose.
- Use only pure, disinfected WDT brine solution with a salt concentration of app. 5%. WDT brine solution is delivered in a sterile condition in a closed bag. Outstanding brine solution is affected by bacterial impact and so should not be used.
- In order to prevent drainage of the Politainer, the nozzle has to be installed on a higher level than the SOLDOS. If this is not possible a spring loaded non-return valve has to be installed in the dosing tube.
- The SOLDOS-V3 is not useful for dry rooms (Tepidarium etc.). For this purpose we recommend to use the SOLDOS-SL or SOLFOG.

ACCESSORIES / OPTIONS

- Push button plate with bonnet for flush mounting
- 2nd pump and nozzle for cabinets with a bigger surface square of 25 m²
- Illumination
- MP3 player and speakers
- Nozzle cover screen in stainless steel

SOLDOS SL-V3

FUNCTION DESCRIPTION

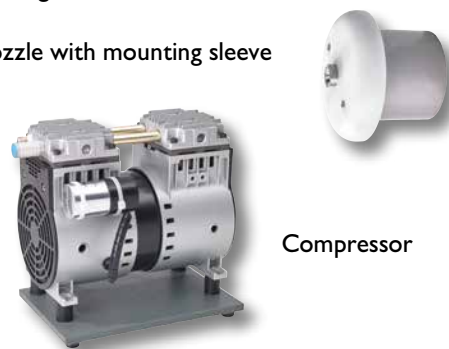
Nebulisation of brine solution to create a salty sea climate for dry rooms. The Soldos-SL is spraying a very fine nebulised, sterile brine solution into dry rooms. After a short time you get a salty sea climate in the room. The dosing capacity is sufficient for rooms with a floor space of app. 35 m². The brine solution is primed out of an air sealed bag (Politainer) by a peristaltic pump and conveyed to a two-component jet nozzle where it is nebulised very fine by adding compressed air. This brine mist is then sprayed into the room. The Politainer inter-folds when the liquid brine solution is taken out. This procedure prevents the contamination of the solution with germs of the ambient air. Furthermore a disinfection system is integrated. Operation via 3,2" full colour Touch display with a multitude of possibilities:

- Operation modes: cyclic operation, push button operation or operation via external control
- Week-program for the definition of the individual operation times per day
- Combination of the salt spray with light and sound effects
- Empty switch for a switch-off of the system when brine will get empty
- Day counter for the indication of a possible necessary disinfection and visual description of this procedure
- Definition of several authorisation levels. Each level allows different settings

SCOPE OF DELIVERY

- Controller with 3,2" Touch installed in housing
- Peristaltic pump SA with rpm control for the adjustment of the dosing quantity / salt concentration
- Water separator
- Mounting board with console for brine bag
- Solenoid piston compressor (to be placed on the floor)
- Two-component jet nozzle stainless steel V4A with cover screen, mounting sleeve, 5 m air tube PE and 5 m brine tube PTFE
- Disinfection set with disinfection tab, mixing bottle and recipient
- 5 kg (resp. 1 kg for private use) sterile brine solution in brine bag
- Design cover

Nozzle with mounting sleeve



Compressor



TECHNICAL DATA

Area of application	Tepidariums, saunas, salt rooms
Electrical supply	230 V/AC 50 Hz
Power supply	455 W
Measures dosing system	W 47 cm x H 71 cm x D 24 cm
Measures compressor	W 24 cm x H 25 cm x D 16 cm
Empty weight / operational weight	app. 20 kg / 25 kg
Sound emission in the plants room	80 dBA
Sound emission in one meter distance to the nozzle	70 dBA
Temperature range	+10°C until +35°C
Protection class	IP44
Nebulisation performance brine	app. 0,32l brine/h at 40 s dosing time and 5 min pause time

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of system
- Power supply

POINTS TO BE CONSIDERED BEFORE THE INSTALLATION:

- Before the installation of a SOLDOS all materials have to be checked on their corrosion resistance against the saline mixture of water and air both in the adequate room and additionally in the ventilation pipework (also in sauna heaters).
- The SOLDOS is not licensed for medical purpose.
- Use only pure, disinfected WDT brine solution with a salt concentration of app. 5%. WDT brine solution is delivered in a sterile condition in a closed bag. Outstanding brine solution is affected by bacterial impact and so should not be used.

ACCESSORIES / OPTIONS

- Push button plate with bonnet for flush mounting
- 2nd pump and nozzle for cabinets with a bigger surface square of 35 m²
- Illumination
- MP3 player and speakers
- Nozzle cover screen in stainless steel

SOLFOG-V2

FUNCTION DESCRIPTION

The SOLFOG generates a very fine, dry fog made of ultrapure brine solution by a ultrasonic fog maker. This dense fog is delivered to the room through an airstream that is produced in the unit. Thereby a salty sea climate is created in the according room. The brine solution is primed out of an air sealed bag (Politainer). This bag inter-folds when the liquid brine solution is taken out. This procedure prevents the contamination of the solution with germs of the ambient air. A salty room climate is said to support the healing process in case of respiratory problems and skin diseases. Additionally the according room can be aromatised by the system. For this reason aroma oil concentrate is evaporated in the system and the aromatised air is blown into the room together with the salty fog.

Operation and visualisation via 5-line LC display and three buttons. Fault indications are displayed in plain text. The SOLFOG has three operation modes: cyclic operation, push-button operation or external control.

SCOPE OF DELIVERY

- Controller NT35 with 5-line LC display installed in housing
- Peristaltic pump SA for brine re-feeding
- Ventilator
- Ultra sonic fog maker
- Fog chamber
- Mounting board with console for brine bag max 5 l
- Disinfection set with disinfection tablet, mixing bottle and recipient
- 5 kg sterile brine solution in politainer (resp. 1 kg for private use)
- Inlet nozzle PVC D40 with cover screen



WATCH OUR SOLFOG VIDEO.

Simply scan the QR code by your tablet or smartphone or search for „wdt solenebler“ on youtube.



TECHNICAL DATA

Area of application	Relax rooms, infrared saunas, salt rooms
Electrical supply	230 V/AC 50 Hz
Power supply	50 W
Measures	W 40 cm x H 71 cm x D 25 cm
Empty weight / operational weight	app. 11 kg / 26 kg
Temperature range	+10°C until +35°C
Protection class	IP44
Nebulisation performance brine	app. 0,07l brine/h at 40 s dosing time and 5 min pause time
Connection fog tube	d 40mm
Input for external control	non-volt or 230V contact
Output for fault indication	non-volt contact

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of system
- Power supply
- Tubing to the room

POINTS TO BE CONSIDERED BEFORE THE INSTALLATION:

- Before the installation of a SOLFOG all materials have to be checked on their corrosion resistance against the saline climate, even the ventilation pipework (also in sauna heaters).
- The SOLFOG is not licensed for medical purpose.
- Use only pure, disinfected WDT brine solution with a salt concentration of app. 5%. WDT brine solution is delivered in a sterile condition in a closed bag. Outstanding brine solution is affected by bacterial impact and so should not be used.
- The SOLFOG is only useful for rooms with a max. temperature of app. 60°C.

ACCESSORIES / OPTIONS

- Push button plate with bonnet for flush mounting
- Cover screen for fog outlet
- Aroma



Foam for Hammam Massages

Oriental pleasure. The Hammam is an important part of the Islamic bathing and body culture. It is also well-known under the name “Turkish bath” or “Oriental bath”. Washing is a fundamental ritual in the Hammam. For this purpose a cotton bag is soaped by the Hammam master, then filled with air by swinging it round. The foam is stripped off the textile and rubbed onto the body for the massage.

We adapted this procedure for the development of our product FOAMDOS. As in the traditional method, a pleasant smelling foam is generated by water, air and soap, but automatically on demand. The foam can be put onto the body by a hand shower. The massage is done either by the guests themselves or by a masseur.

The system was originally designed for the installation under a massage table. The design is therefore very compact. The unit is easy to install and maintain.

FOAMDOS

FUNCTION DESCRIPTION

The FOAMDOS produces foam for Hammam massages by the three components water, air and foam agent. Furthermore a shower function with warm water is integrated. The dosing quantity of the foam agent, the water flow and so the consistency of the foam is adjustable individually at the controller. Both functions are started by a push-button.

SCOPE OF DELIVERY

- Microprocessor controller UNPL in housing
- Diaphragm air pump 7006 AC
- Supply with pre-filter and ball valve MS 1/2" female thread
- Non-return according to DIN EN1717
- Pressure gauge
- Flow regulator
- 2 x solenoid valve 3/8"
- Foam generator
- Peristaltic dosing pump SA
- Suction lance d 12-420 mm
- 2 x dosing valve for foam agent and air
- 3 m hose PVC 12 x 1,5 transparent for the outlet of the foam
- Push-button plate 2-fold
- Completely tubed and pre-wired on PP board grey

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	100 W
Water supply	1/2" female thread
Measures	W 50 cm x H 50 cm x D 25 cm
Weight	app. 10 kg



TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panel
- Power supply
- Thermo mixer/Water supply mixed water 1/2"
- Needed pressure: 2 bar dynamic
- Water quantity: app. 10 l/min
- Drain in the plants room
- Foam outlet: hand shower or wall outlet with bowl

ACCESSORIES / OPTIONS

- Thermo mixer
- Hand Shower for the foam outlet





Foot bath sputtering system

Keeping healthy according to the famous German pastor, Kneipp. Taking alternating hot and cold water foot bathes is an approved therapy method. It has been proven that stress levels can be reduced by alternating cold and warm water. Foot bathes also improve the cardiovascular system. The "Guidelines for the building of Saunas" by the association "Deutscher Sauna-Bund e.V." recommends the use of foot bathes in connection with taking a sauna.

With WDT's system you can alternatively enjoy warm or cold foot bathes. After the automatic filling, air is blown into the basin to pleasantly stimulate the foot reflex zones. Due to an integrated disinfection concept the system is totally hygienic and can be used by several persons one after the other without hesitation.

In addition to the technical equipment package, we also offer attractively designed foot bathes made of stainless steel, Corian® or ceramics.

Page:

119 Foot spa system

122 Basins

FOOT BATH SPUTTERING SYSTEM FOR 1 BASIN

FUNCTION DESCRIPTION

The programme is activated by a push-button. The guest has the choice between a cold or warm water treatment. After pressing the button the filling of the basin starts. It stops when an adjustable water level is reached. Then the bubbling starts automatically for a programmable time. After the lapse of this time the bubbling stops and a dwell time follows. Afterwards the basin is emptied automatically. During the dwell time the bubbling can be restarted before the emptying. During the filling procedure a chlorine solution is dosed to disinfect the whole system (drain-, air piping and basin) and the feet of the user.

SCOPE OF DELIVERY

Controller consisting of:

- Microprocessor controller in housing
- Potis for the adjustment of the single parameters (Bubbling time, dwell time...)
- Pressure switch and pressure measuring device for the regulation of the water level
- Completely pre-wired on PP board grey

Water part consisting of:

- 2 x supply (warm/cold) with pre-filter and ball valve 3/4" female thread
- Thermo mixer JRG 3/4" with non-return valves
- 2 x outlet with solenoid valve 3/4" and screwing for the filling
- Completely tubed on PP board grey

Push-button plate 2 fold

with bonnet for flush mounting and name plates for the start of the programme

Peristaltic pump

with console and bottle 1,5 l for the disinfection incl. dosing tube and dosing valve

Side channel vacuum blower

0,20kW 230 V - 50 HZ, IP55 for bubbling effect

Motor-ball valve

2-ways PVC DN32 PTFE/EPM 230 VAC D40 S6 max. 3,5 bar for the automatical drainage of the basin



TECHNICAL DATA

Controller

Electrical supply	230 V/AC 50 Hz
Power supply	max. 300 W
Measures	W 35 cm x H 35 cm x D 15 cm
Weight	2 kg

Water Part

Water supply	2 x 3/4" female thread
Outlet to the basin	2 x solenoid valve 3/4"
Measures	W 41 cm x H 44 cm x D 15 cm
Weight	8 kg

Water consumption according to basin dimensions

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panels
- Power supply
- Water connection cold 3/4"
- Water connection warm 3/4"
- Needed pressure: 3 bar dynamic
- Water quantity: according to basin dimensions
- Tubing to water outlet DN20
- Drainage tube DN40
- Air tube DN25
- Basin with false floor

ACCESSORIES / OPTIONS

- LED illumination RGB for the basin
- Basin with false floor made of ceramics or Corian® on demand





FOOT BATH BUBBLING SYSTEM FOR 2 BASINS

FUNCTION DESCRIPTION

The programme is activated by a push-button. The guest has the choice between a cold or warm water treatment. After pressing the button the filling of the basin starts. It stops when an adjustable water level is reached. Then the bubbling starts automatically for a programmable time. After the lapse of this time the bubbling stops and a dwell time follows. Afterwards the basin is emptied automatically. During the dwell time the bubbling can be restarted before the emptying. During the filling procedure a chlorine solution is dosed to disinfect the whole system (drain-, air piping and basin) and the feet of the user. Both basins can be operated independent from each other.

SCOPE OF DELIVERY

Controller consisting of:

- 2 x Microprocessor controller in housing
- Potis for the adjustment of the single parameters (Bubbling time, dwell time...)
- 2 x Pressure switch and 2 x pressure measuring device for the regulation of the water level
- Completely pre-wired on PP board grey

Water part consisting of:

- 2 x supply (warm/cold) with pre-filter and ball valve 1" female thread
- Thermo mixer JRG 1" with non-return valves
- 4 x outlet with solenoid valve 3/4" and screwing for the filling
- Completely tubed on PP board grey

2 x Push-button plate 2 fold

with bonnet for flush mounting and name plates for the start of the programme

2 x Peristaltic pump

with console and bottle 1,5 l for the disinfection incl. dosing tube and dosing valve

2 x Side channel vacuum blower

0,20 kW 230 V - 50 HZ, IP55 for bubbling effect

2 x Motor-ball valve

2-ways PVC DN32 PTFE/EPM
230 VAC D40 S6 max. 3,5 bar
for the automatical drainage of the basin



TECHNICAL DATA

Controller	
Electrical supply	230 V/AC 50 Hz
Power supply	max. 600 W
Measures	W 50 cm x H 40 cm x D 15 cm
Weight	4 kg
Water Part	
Water supply	2 x 1" female thread
Outlet to the 2 basins	4 x solenoid valve 3/4"
Measures	W 50 cm x H 50 cm x D 15 cm
Weight	10 kg
Water consumption according to basin dimensions	

TO BE PROVIDED BY THE BUILDER

- Plants room for the installation of the control panels
- Power supply
- Water connection cold 1"
- Water connection warm 1"
- Needed pressure: 3 bar dynamic
- Water quantity: according to basins dimensions
- Tubing to water outlet 2 x DN20
- Drainage tube 2 x DN40
- Air tube 2 x DN25
- 2 x basin with false floor

ACCESSORIES / OPTIONS

- LED illumination RGB for the basins
- Basins with false floor made of ceramics or Corian® on demand





FOOT BASIN MADE OF CERAMICS

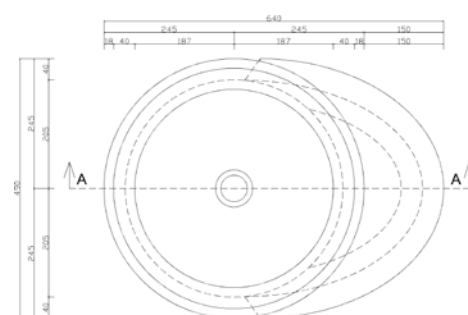


The foot basins made of ceramics have been developed together with the company Sommerhuber especially for the foot bath bubbling system and are available round or square shaped.

The basins are casted in one piece and glazed from the interior and from the outside. A false, maintainable floor made of Corian® is installed by WDT in the basin to realise the bubbling function. The glazing of the ceramics and the colour of the floor are tuned to each other.

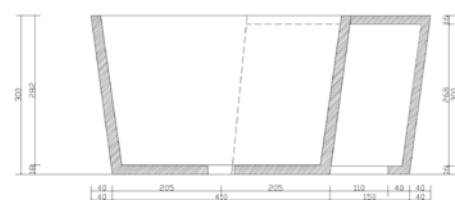
An additional part made of ceramics is available for the installation of the faucets (provided by the client or by WDT) and the buttons for the start of the programmes. The basins with additional part are available for single as well as for double foot bath sputtering systems.

Glazes Spa Ceramics



Floor-Plan

Cut 1-1



FOOT BASIN MADE OF CORIAN®

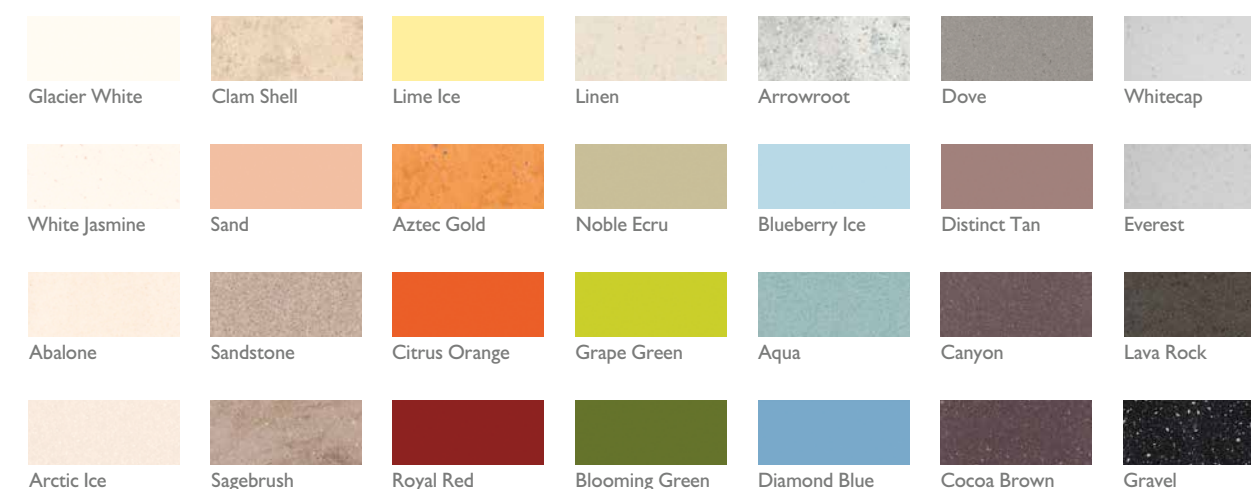


The foot basins made of Corian® have been developed especially for the foot bath bubbling system. They are available in many different shapes (e.g. rectangular, round, half-round) and colours. Nonporous and stain-resistant, Corian® is easy to clean, making it an ideal surface for wellness & spa.

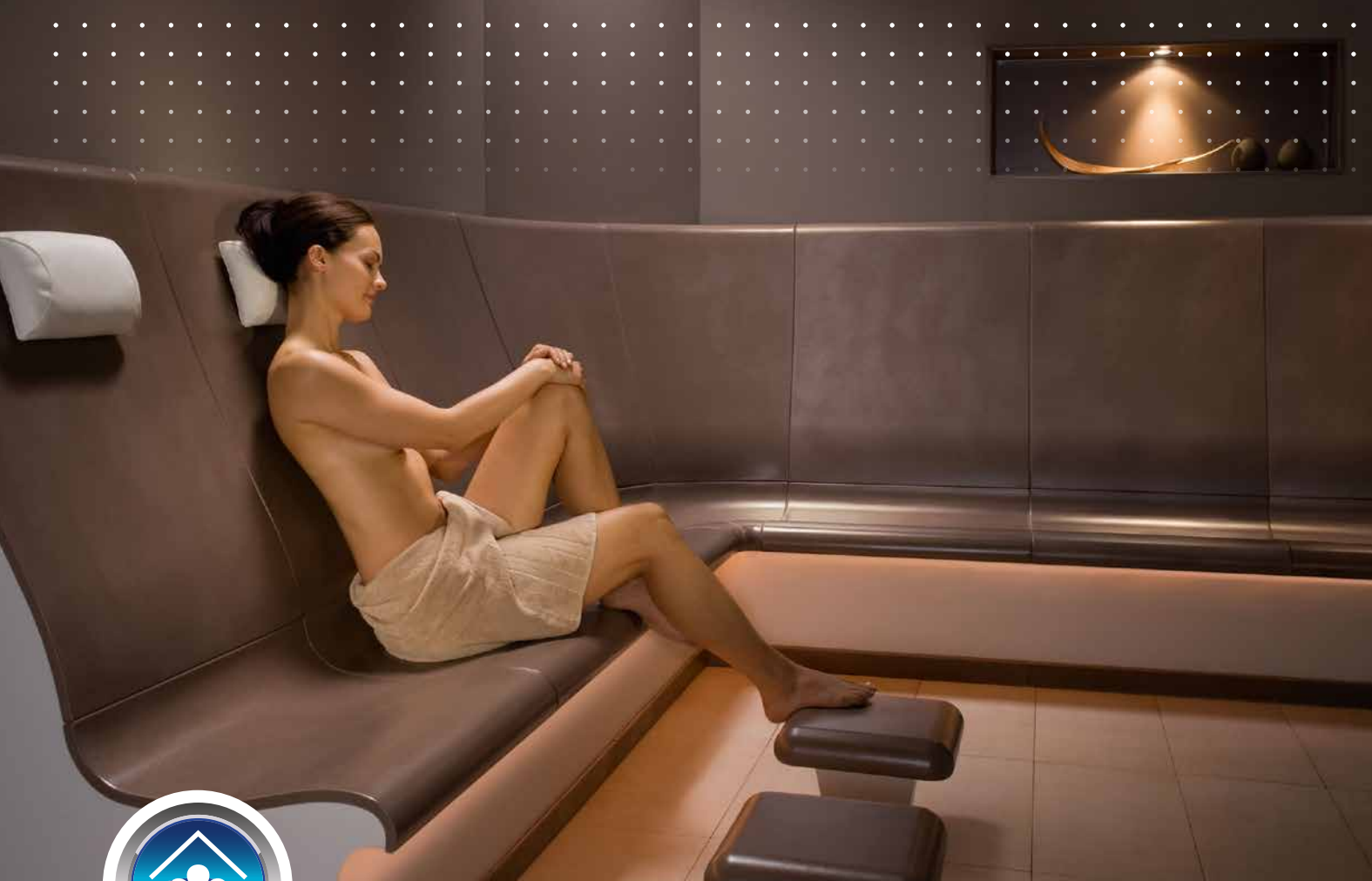
A false floor made of Corian® is installed by WDT in the basin to realise the bubbling function.

The faucets (provided by the client or by WDT) can be integrated by a boring into the basin or we can provide a cover frame made of Corian®. The buttons for the start of the programmes are in general installed next to the basin. The basins can either stand-alone or be installed in a way, that the outside is tiled. It is also possible to tile the inside.

A small overview of the colours:



You find further colours on: www.wdt-dosing.com



Room aromatisation

Pleasant aroma increases the recreational value of a wellness treatment. For the aromatisation of dry rooms like relaxation areas, tepidariums, calariums and infra-red cabinets, you can only use air as a carrier medium of the aroma. Our systems for room aromatisation have been especially developed for this application.

Our equipment is designed to use the principle of evaporation. Air is blown over the surface of a fragrance oil concentrate and it evaporates the volatile parts of the oil. This aromatised air is then conveyed into the room by a small compressor or a blower. Because of this process, no aroma aerosol has to be sprayed into the room. So no residue of the fragrance is present around the aroma outlet or in the room. The low-volatile parts of the fragrance settle at the bottom of the aroma bottle. This bottle can be changed or re-filled very easily and cleanly. The systems work up to a room temperature of app. 50°C and are available for one or several aromas to choose from.

13267- AEROM POWER



FUNCTION DESCRIPTION

Unit for the aromatisation of rooms up to a volume of app. 100 m³. For the installation in the room that has to be aromatised. A small blower blows air over the surface of a fragrance concentrate that is filled into a little bottle. The fragrance concentrate evaporates and is blown into the room. The intensity of the aroma can be adjusted by a rotary knob at the housing.

SCOPE OF DELIVERY

- Micro-processor controller DS
- Ventilator
- Bottle adapter
- PET-bottle 250 ml
- Filter star 60 x 8 for the increase of the surface
- Housing with all components installed

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 10 W
Evaporation performance max.	app. 20 ml of aroma in 24 h (depending on the aroma)
Measures	W 13 cm x H 23 cm x D 11 cm
Weight	app. 2 kg

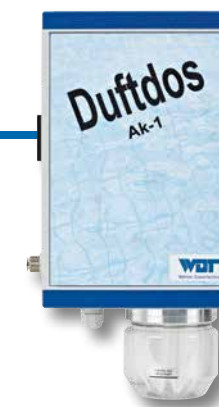
TO BE PROVIDED BY THE BUILDER

- Useful for rooms with a max. temperature of 50°C

ACCESSORIES / OPTIONS

- Fragrance

17108- DUFTDOS-AK1-0



FUNCTION DESCRIPTION

Unit for the aromatisation of Tepidariums, Caldariums, Infra-Red Saunas etc. for cabinets of app. 50 m³ volume. For the installation in the plants room. A small compressor blows air over the surface of a fragrance concentrate that is filled into a little bottle. The fragrance concentrate evaporates and is transported into the room by a tube 6 x 1 (max. 5 meters). To be controlled externally by 230 V on/off.

SCOPE OF DELIVERY

- Compressor 7006 AC
- Bottle adapter
- PET-bottle 250 ml
- Filter star 60 x 8 for the increase of the surface
- Housing with all components installed
- Injection nozzle for cabinets and 5 m dosing tube PE 6x1



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 60 W
Evaporation performance max.	app. 5 ml of aroma in 24 h (depending on the aroma)
Measures	W 25 cm x H 50 cm x D 13 cm
Weight	app. 4 kg

TO BE PROVIDED BY THE BUILDER

- Useful for rooms with a max. temperature of 50°C
- Control signal 230 V on/off

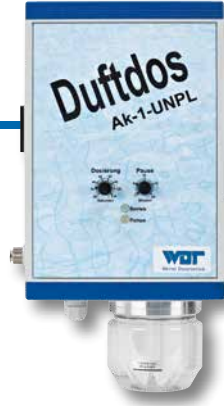
ACCESSORIES / OPTIONS

- Fragrance





18876-1-DUFTDOS- -AK1-UNPL



FUNCTION DESCRIPTION

Unit for the aromatisation of Tepidariums, Caldariums, Infra-Red Saunas etc. with intensity control for cabinets of app. 50 m³ volume. For the installation in the plants room. A small compressor blows air over the surface of a fragrance concentrate that is filled into a little bottle. The fragrance concentrate evaporates and is transported into the room by a tube 6 x 1 (max. 5 meters).

The pause and dosing times are adjusted by 2 rotary knobs at the control housing.

SCOPE OF DELIVERY

- Microprocessor controller UNPL
- Compressor 7006 AC
- Bottle adapter
- PET-bottle 250 ml
- Filter star 60 x 8 for the increase of the surface
- Housing with all components installed
- Injection nozzle for cabinets and 5 m dosing tube PE 6 x 1



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 60 W
Evaporation performance max.	app. 5 ml of aroma in 24 h (depending on the aroma)
Measures	W 25 cm x H 50 cm x D 13 cm
Weight	app. 4 kg

TO BE PROVIDED BY THE BUILDER

- Useful for rooms with a max. temperature of 50°C

ACCESSORIES / OPTIONS

- Fragrance

13349-1- DUFTDOS- AK3-W-UNPL



FUNCTION DESCRIPTION

Unit for the aromatisation of Tepidariums, Caldariums, Infra-Red Saunas etc. with 3 different aromas with intensity control for cabinets of app. 50 m³ volume. For the installation in the plants room. A small compressor blows air over the surface of a fragrance concentrate that is filled into a little bottle. The fragrance concentrate evaporates and is transported into the room by a tube 6 x 1 (max. 5 meters).

The demanded aroma is chosen by a pre-selector switch at the controller of the unit by the operator. After the choice of the aroma it is dosed in adjustable intervals. The dosing performance is adjusted by the pause time and the dosing time by rotary knobs at the housing.

SCOPE OF DELIVERY

- Microprocessor controller UNPL
- Pre-selector switch
- 3 x compressor 7006 AC
- 3 x bottle adapter
- 3 x PET-bottle 250 ml
- 3 x filter star 60 x 8 for the increase of the surface
- Housing with all components installed
- 3 x injection nozzle for cabinets and 3 x 5 m dosing tube PE 6 x 1

TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 60 W
Evaporation performance max.	app. 5 ml of aroma in 24 h (depending on the aroma)
Measures	W 40 cm x H 40 cm x D 20 cm
Weight	app. 8 kg

TO BE PROVIDED BY THE BUILDER

- Useful for rooms with a max. temperature of 50°C

ACCESSORIES / OPTIONS

- Fragrance
- Also available for 2 or 4 aromas (on demand)

22190-DUFTDOS- AK4-T-EDS1

FUNCTION DESCRIPTION

Unit for the aromatisation of Tepidariums, Caldariums, Infra-Red Saunas etc. with 4 different aromas for cabinets of app. 50 m³ volume. For the installation in the plants room. A small compressor blows air over the surface of a fragrance concentrate that is filled into a little bottle. The fragrance concentrate evaporates and is transported into the room by a tube 6 x 1 (max. 5 meters).

The demanded aroma is chosen by the user of the steam room by a push-button. The aroma intensity can be set individually for each aroma at the controller. During the dosing of the demanded aroma the other aroma pumps are locked. After the lapse of the programme the dosing is blocked for 3 minutes.

SCOPE OF DELIVERY

- Microprocessor controller EDS1
- 4 x compressor 7006 AC in housing
- 4 x bottle adapter
- 4 x PET-bottle 250 ml
- 4 x filter star 60 x 8 for the increase of the surface
- Housing with all components installed
- 4 x injection nozzle for cabinets and 4 x 5 m dosing tube PE 6 x 1



TECHNICAL DATA

Electrical supply	230 V/AC 50 Hz
Power supply	app. 60 W
Evaporation performance max.	app. 5 ml of aroma in 24 h (depending on the aroma)
Measures	W 40 cm x H 40 cm x D 20 cm
Weight	app. 8 kg

TO BE PROVIDED BY THE BUILDER

- Useful for rooms with a max. temperature of 50°C

ACCESSORIES / OPTIONS

- Push button plate with bonnet for flush mounting
- Fragrance
- Available also for 2 or 3 aromas (on demand)





Touch screen controllers

Only a perfect interaction of water, aroma, steam, light, sound and heat makes wellness a pleasant and unique experience. These elements can be harmonised easily by our control systems. We offer you individual touch screen controllers that are customised for your wellness concept.

We are able to supply controllers for a single cabinet or a central control system for all cabinets of a wellness center. The operator is capable of managing all components of the wellness area very easily from one touch screen.

For intuitive operation and visualisation we use clearly designed touch screens from 3,8" to 19". They can be programmed in several languages. Furthermore, the measured values, current operational status, faults and alarms can be displayed with each browser driven multimedia terminal such as a PC, smartphone, or tablet. Due to the use of sophisticated SPS industrial controllers, a highly stable system is guaranteed. In addition, each controller includes its individual wiring diagram for the trouble-free electrical installation.

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129 Remote control for steam rooms

130 Central control systems for

Wellness areas

REMOTE CONTROL FOR STEAM GENERATORS

FUNCTION DESCRIPTION

Touch screen controller for the remote control of steam rooms that are operated with any steam generator that can be controlled externally. All functions and parameters of the cabinet can be set easily by the self-explanatory menu of the touch screen. The controller incl. room temperature sensor is delivered in a separate control cabinet. Controller and touch are connected by a BUS cable.

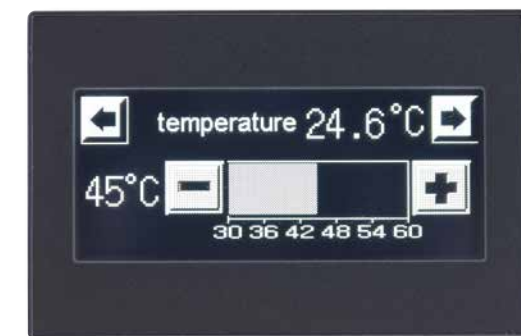
SCOPE OF DELIVERY

- SPS controller with 4 - 18 control outputs (according to the no. of connected components)
- Metal control cabinet
- Temperature sensor PT1000
- If necessary temperature sensors PT1000 for bench, floor and wall
- 3.8" Touch screen display, 32 levels of grey
- Cover screen stainless steel
- Bonnet for flush mounting of the touch
- 5 m BUS cable for the connection controller - touch

Here a choice of components that can be controlled:

- Steam generator - temperature controlled
- Exhaust ventilator - temperature controlled
- Supply ventilator
- Fragrance pump DUFTDOS-0
- SOLDOS
- Illumination (e.g. spots, projector/colours fiber optics) - 230 V or non-volt on/off
- Illumination (e.g. LED RGB WDT) - choice by touch
- Floor heating - temperature controlled
- Wall heating - temperature controlled
- Bench heating - temperature controlled
- MP3 Player

Other variants on demand!



MEASURES

Touch 3.8"	W 113 mm x H 74 mm x D 27 mm
Touch 4.3"	W 149 mm x H 109 mm x D 56 mm

ACCESSORIES / OPTIONS

- Touch screen 4.3" - 64000 colours, full graphically





CENTRAL CONTROL SYSTEMS FOR WELLNESS AREAS

FUNCTION DESCRIPTION

Heat, water, illumination, sound and aroma: only the harmony of these senses gives a unique wellness experience. The touch screen controller combines these elements perfectly. All operation modes (Steam Room, Tepidarium, Finnish Sauna, Soft Sauna etc.) and all functions (light, sound, steam generators, sauna heaters, floor-/ wall-/ bench heating etc.) of the cabinets can be controlled and harmonised by the central control system.



SCOPE OF DELIVERY

- SPS controller (no. of control outputs according to the no. of connected components)
- Metal control cabinet
- Temperature sensors PT1000/ humidity sensors and safety temperature limiters STL (depending on the number of connected generators, heaters, heating circuits)
- Touch screen display: 3,8" or 4,3" or 7" - bigger touches on demand
- Bonnet for flush mounting of the touch
- BUS cable for the connection controller - touch



Here a choice of components that can be controlled:

Steam Room:

- Steam generator - temperature controlled
- Exhaust ventilator - temperature controlled
- Supply ventilator
- Fragrance pump DUFTDOS-0
- SOLDOS
- Illumination (e.g. spots, projector/colours fiber optics) - 230 V or non-volt on/off
- Illumination (e.g. LED RGB WDT) - choice by touch
- Floor heating - temperature controlled
- Bench heating - temperature controlled
- MP3 Player

(Soft-)Sauna:

- Sauna heater - temperature controlled
- Possibly steam generator/water basin - humidity- or time controller
- Illumination (e.g. spots, projector/colours fiber optics) - 230 V or non-volt on/off
- Illumination (e.g. LED RGB WDT) - choice by touch
- Sauna splash automatic
- MP3 Player

Tepidarium:

- Aromatisation DUFTDOS-AK
- Exhaust ventilator
- Supply ventilator
- Illumination (e.g. spots, projector/colours fiber optics) - 230 V or non-volt on/off
- Illumination (e.g. LED RGB WDT) - choice by touch
- Floor heating - temperature controlled
- Wall heating - temperature controlled
- Bench heating - temperature controlled
- MP3 Player

Other variants on demand!



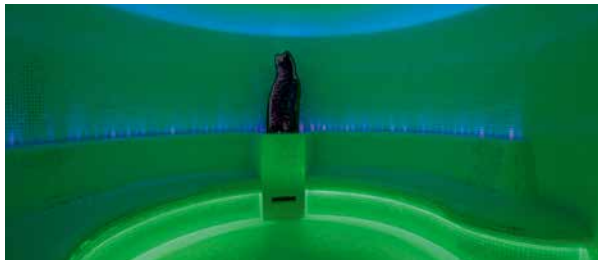
Fragrances, Brine solution, Foam agent

Holistic concepts are the latest trend in wellness and spa facilities. All senses are activated in harmony at the same time (smell, sight, hearing and touch). The human perception of aroma is multisensual. This means that one sense is never perceived in isolation from the other senses. That's why warm water for example is associated with warm colours like red or yellow. The compatible aroma is fruity and strong. Therefore, it is important to have the right aromatisation technique and fragrance.

Depending on the application, a suitable carrier medium for the fragrance has to be used to aromatise a room. In steam rooms and experience showers, the fragrance is injected directly in the steam or water tube. In the sauna, fragrance is mixed with water and splashed onto the hot stones. The fragrances that we offer are mixtures of natural and nature identical etheric oils and aromas. To make them dissolvable in water we use solutisers that are also used in the food and cosmetic industry. For each fragrance we provide a corresponding material safety data sheet.

Brine solution is used to create a salty sea climate for wellness applications. Our brine solution is delivered sterile in special air sealed bags (Poltainers) with an expiry date.

The product line is rounded off by pleasant smelling foam agent for Hammam massages. The available scents are rose and hayflower.



FRAGRANCES FOR STEAM ROOMS

Fragrances for steam rooms, deliverable in 1 l - 3 l - 5 l - 10 l canisters.



FRAGRANCES FOR SAUNA

Fragrances for saunas, deliverable in 1 l - 3 l - 5 l - 10 l canisters.



FRAGRANCES FOR EXPERIENCE SHOWERS

Fragrances for showers, deliverable in 1 l - 3 l - 5 l - 10 l canisters.



FRAGRANCES FOR ROOM AROMATISATION

Fragrances for room aromatisation, deliverable in 1 l bottles or 50 ml refill pack.

Here a small choice of our fragrances - others on demand:

	Fragrances for Steam Rooms	Fragrances for Sauna	Fragrances for Experience Showers	Fragrances for Room Aromatisation
Exotic				
Orange				•
Orange-Tangerine	•	•		
Lemon				•
Papaya				•
Ceylon Mango	•			
Passion Fruit				•
Tropica/Passion Fruit			•	
Ice Lime	•			
Exotic Dream				•
Apple		•		
Bourbon Vanille	•	•		•
Mexico Lemon Grass	•			•
Slibowitz		•		
Lime		•		
Sumatra Orange			•	
Floral				
West-Indian-Rose	•	•		
Provence Lavender	•	•		
Sommer Grassland				•
Minty				
Alaska Mint	•	•		
Euka-Mint				•
Eucalyptus Menthole	•	•		
Ice-Mint/Arctic Sea			•	
Polaric Night			•	
Green				
Noble Fir/Spruce Needle	•	•		
Mountain Pine	•	•		
Eucalyptus				•
China Eucalyptus	•	•		
Finnish Birch tree		•		
Siberian Ice Steppe			•	
Aromatic				
Herbs of the Alps	•	•		•
French Melissa	•	•		
Camomile	•			•
Oriental	•			•
Toscana Herbal Garden	•			
Woody				
Sandle Wood				•

BRINE SOLUTION



Sterile, 5% brine solution for the nebulisation with SOLDOS/SOLFOG to create a salty sea climate in the room.

Filled in Politainers (air sealed bag) to prevent the contamination of the brine solution with germs of the ambient air.

SCOPE OF DELIVERY

6 pieces of „Politainers“ filled with 5% brine solution, packed in carton.

Part no.	Description
17669	6 x 1 l brine solution incl. disinfection tabs
17667	6 x 5 l brine solution incl. disinfection tabs

FOAM AGENT



Foam agent for Hammam massages with FOAMDOS.

SCOPE OF DELIVERY

Part No.	Description
15455	Foam agent - Rose 10 l pH-neutral for sensitive skin with rose and coco oil
18347	Foam agent - Hey Flower 10 l pH-neutral for sensitive skin



ASSOCIATIONS / UNIONS



Bundesverband Schwimmbad & Wellness e.V. (bsw)



Deutsche Gesellschaft für das Badewesen e.V.



Bundesverband Deutscher Schwimmmeister e.V.



Member of
German Water Partnership



Deutscher Sauna-Bund e.V.



Österreichisches Sauna Forum



Hydrothermal SPA Forum



Pool Plenum

Subject to error and change.

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