

*Armitage  
Shanks*

# SPHERO

INTELLIGENCE BUILT IN



Ideal Standard

PART OF THE IDEAL STANDARD GROUP

# SPHERO

INTELLIGENCE BUILT IN

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## WASHROOM ARCHITECTURE

### Every element considered

Our washroom products are designed with architects in mind.

Together, we share an obsessive attention to detail – considering every part of every project, interrogating every element and fixating on every function so we can harmonise all aspects beneath one larger vision.

Our solutions are a response to the lifestyle needs of today and tomorrow, providing our partners with richer opportunities to meet project needs, beautifully.





# INTELLIGENCE BUILT IN

THE STORY OF SPHERO





## DEVELOPING A WASHROOM REVOLUTION

Redefining the urinal,  
revolutionising the washroom

There has been a renewed focus on the urinal in recent years. Increased concerns about the environment have put sustainability and water consumption in the spotlight, whilst advances in technology have led to functional progress.

Designed in partnership with the award-winning Studio Levien, Sphero combines the latest water-saving innovations with timeless aesthetics. It delivers a smarter urinal range that's fit for the modern world.

"We have taken an item that has historically been primarily about functionality and through a combination of high aesthetic design and great engineering completely reinvented it."

Robin Levien,  
Designer

CRAFTED  
FROM  
EXPERIENCE

A heritage steeped in innovation

In collaboration with world-leading universities, architects and construction firms, we are working together to shape the future of modern living.

From our roots pioneering products like the ceramic disk cartridge, to delivering solutions for pressing global challenges, our mission has always been to make life better for our customers.

- 1902  
One-piece Bathtub
- 1965  
Skid-resistant Bathtub
- 1969  
Ceramic Disc Cartridge
- 1979  
The Rimless Toilet
- 1990  
Top Fix
- 2000  
Click Technology
- 2007  
Markwik
- 2011  
IdealBlue
- 2015  
AquaBlade
- 2016  
FirmaFlow
- 2017  
Ipalyss
- 2019  
Ceramic Disc 50<sup>th</sup> Anniversary
- 2020  
Sphero Urinals



2015  
AquaBlade

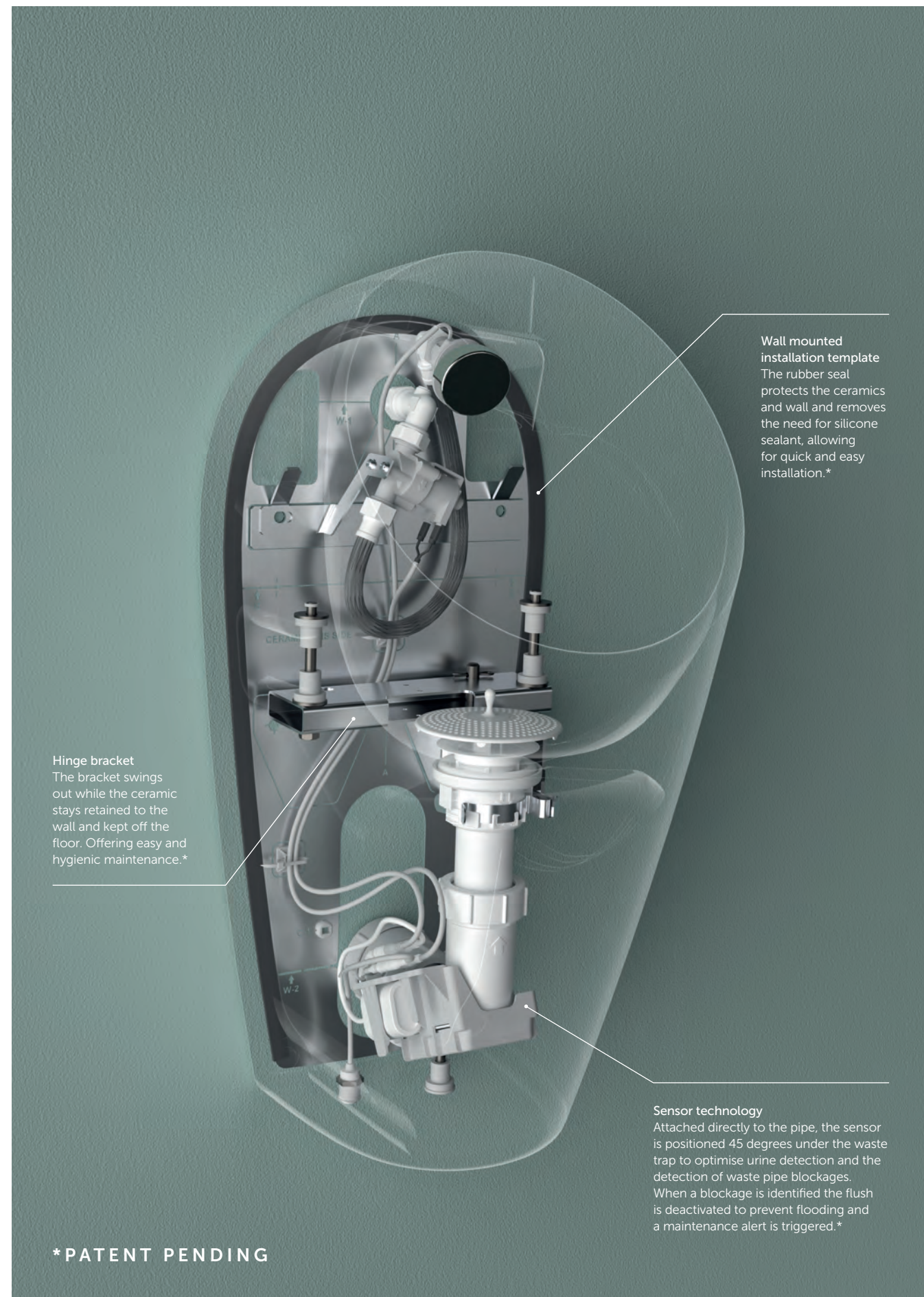


2019  
Ceramic Disc 50<sup>th</sup> Anniversary



2020  
Sphero Urinals





## ENGINEERED FOR EFFICIENCY

### Efficient at every level

Sphero has been developed with the future in mind. Our unique technology delivers water-saving benefits and outstanding hygiene, whilst providing ease of installation and maintenance.

The easy fix hanger and installation template make fitting smooth and efficient. A choice of back or top inlet models allow concealed or exposed installation, and the top fixed waste and patented pivot arm enable quick and easy access for on-wall maintenance.

### The Smart Hybrid

Our Smart Hybrid flush system takes efficiency to new heights. Crafted for economy, it offers the benefits of a Waterless unit with added hygiene.

Available in Midi or Maxi models, the smart sensor technology detects salinity and urinal use, activating flushes and using water only when needed. This Hybrid revolution can save over 50,000L of water per year in high-traffic environments compared to infrared solutions.

Bluetooth provides the communication to our SPHERO app or through a gateway to the cloud. This access permits full usage and diagnostic information and allows complete control of the urinal mode settings (Hybrid, Waterless, Standard).

# SHAPED TO STAND OUT

## A statement in any washroom

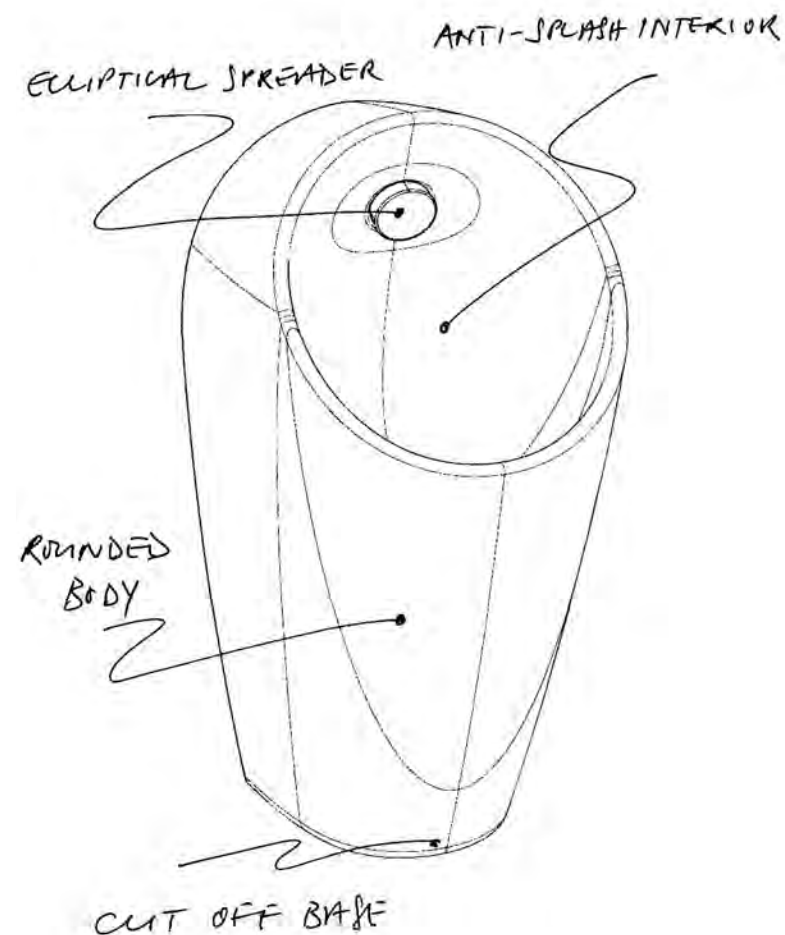
Our partnership with Studio Levien has resulted in a product that is smart in every sense of the word.

Sphero's strikingly simple form belies the intelligence within its design. The fine edges not only achieve a modern aesthetic but are highly practical, helping to contain liquids in the bowl. The deep concave bowl has been designed to offer anti-splash geometry and optimum user privacy.

Each model uses the same rounded shape. It's instantly recognisable and a statement in any washroom.

"Together we set about harnessing the latest technologies to deliver easy cleaning, water saving, anti-splash and ease of installation."

Robin Levien,  
Designer



Robin Levien, Designer



## KEY FEATURES



# ENHANCING EVERY ENVIRONMENT

## Shaped to suit all spaces

Sphero's considered, sophisticated design elevates and compliments contemporary washrooms.

Available in three sizes, each with multiple models, Sphero delivers an extensive range of simple solutions.





"We wanted all models to have the same distinctive form. It's a strong coordinated design but allows for size variations and adapts to every type of installation."

Robin Levien,  
Designer









"Striking design and smart hygiene make Sphero ideal for modern high-traffic washrooms."

Robin Levien,  
Designer



#### Enhanced water coverage

Hygienic flush

Spreader delivers enhanced hygiene with flush covering majority of bowl.

#### Anti-splash geometry

Concave bowl

Concave bowl and low outlet position inside the urinal prevents splashback onto the floor and clothing.

## SCULPTED FOR SUPERIOR HYGIENE

#### Hygienic by design

Sphero's anti-splash geometry prevents splashback onto the floor and clothing. The rimless design makes it easier to clean, as does the nozzle spreader which delivers a more hygienic flush that covers around most of the urinal.

The ceramic edges have been designed to reduce surface cleaning and stop water retention, preventing the spread of bacteria.

#### Fresher spaces

The Waterless options contain an odour block cartridge which eliminates internal pipe odour, keeping the air around the urinal fresh and free from smells.

The cartridge needs changing on average every 2 months. It lasts for a minimum of 5,000 uses. High usage (200 uses per day) requires a monthly change and low usage a change every 3 months.

MINI



MIDI



MAXI





# DESIGNED TO THINK AHEAD

**Sensor technology**  
Predicting issues, preventing problems

The intelligent sensors inside the Sphero Maxi detect issues and provide feedback to aid maintenance and minimise water consumption.

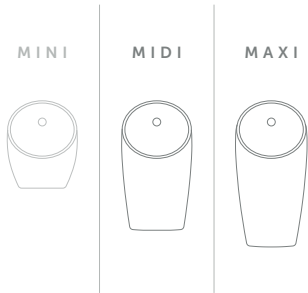
If the sensor detects a blockage, or a cartridge or battery end of life, the spreader light will provide a distinctive warning alert for corrective maintenance. When a blockage is detected no more flushes will be triggered.

**LED warning light**

Issue	Blockage**	Cartridge replacement	Battery replacement
LED flashing pattern*	8 times	3 times	5 times
Sleep time	1 hour	2 hours	1 hour

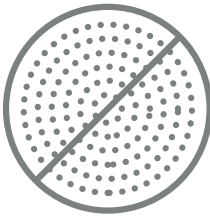
\* The flashing pattern repeats 15 times and the light only switches off completely once the issue has been resolved.

\*\* In the event of slow flow the warning light will start flashing but the urinal will continue to flush for hygiene purposes. If there is a complete blockage flushing will be suspended.



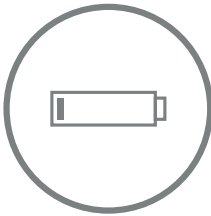
**Blockage / slow flow**

Sphero's smart sensors will detect and notify maintenance of any blockages.



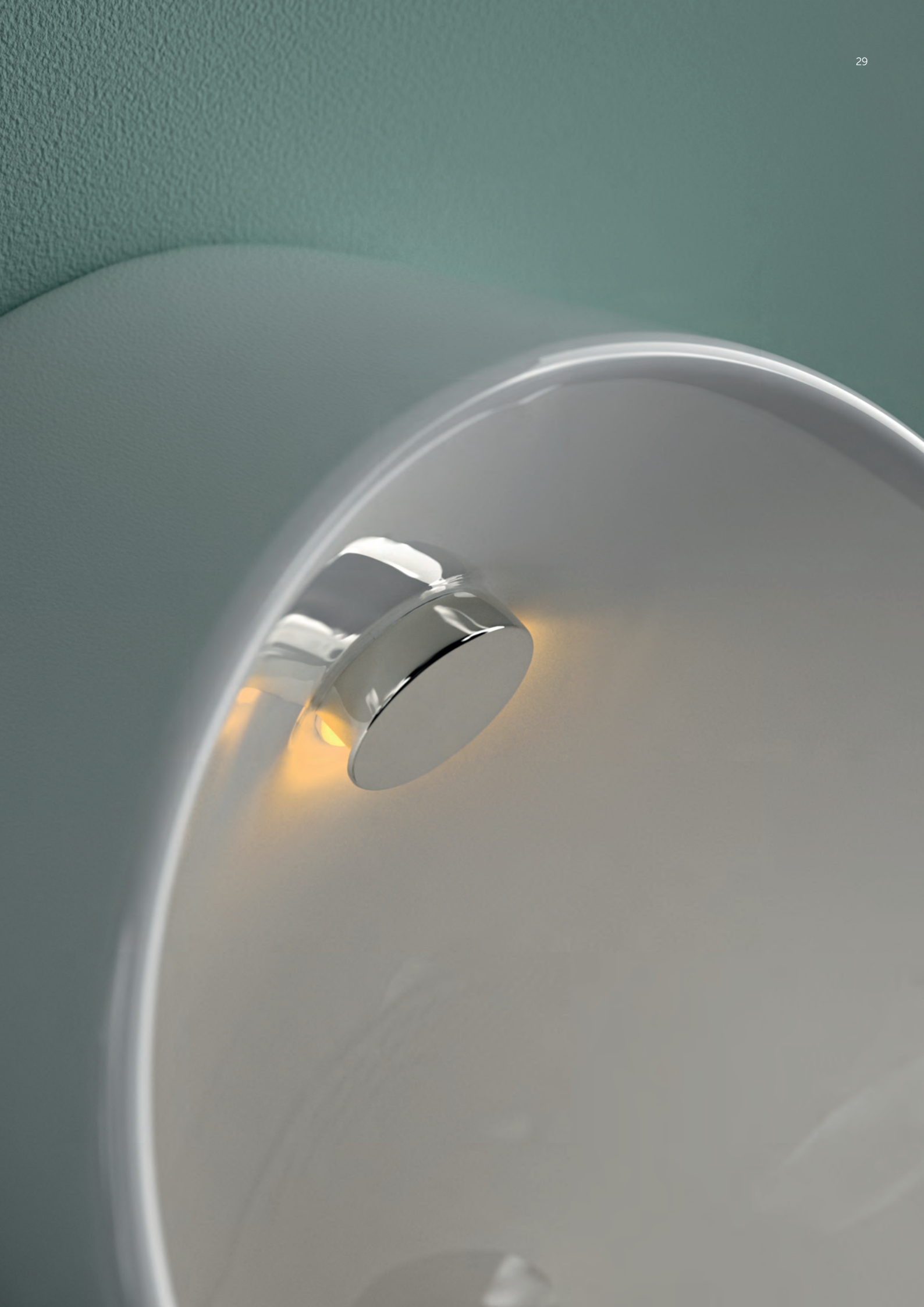
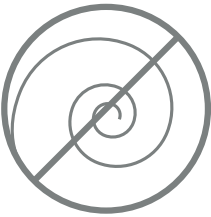
**Low battery**

A warning light will signal the battery needs to be replaced when 80% of the power has been used.



**Flush failure**

The smart sensors can also detect flush failure.



## BUILT WITH THE FUTURE IN MIND

### Flush modes Crafted for economy

Sphero Maxi's Autoflush feature lets you switch between three flush modes – Hybrid, Standard, and Waterless.

When switched to Hybrid mode, the smart sensor technology detects salinity and urinal use. When usage is detected a single flush is activated every 30 mins, using just 0.85L water per flush. A hygiene flush will activate on an unused unit every 24 hours.

Default Hybrid mode saves over 50,000L of water per year in high-traffic environments compared to infrared solutions. 250 people using a Standard flush uses on average 212L a day, while in default Hybrid mode the Sphero flushes 48 times a day and uses just 40L.

In Standard mode the urinal continually detects salinity. If used less than once every two minutes a flush is activated 8 seconds after every use (optional settings of 6, 8, and 10 seconds are available). Like in Hybrid mode, if no use is detected a hygiene flush is activated every 24 hours (optional 12 hours).

When usage is higher than twice every minute the urinal automatically switches to a Stadium mode, activating a rinse (at a much reduced quantity of water) on every use.

In Waterless mode the urinal will not flush – offering maximum water savings. There is a cartridge included for this mode in all Smart Hybrid Sphero models.

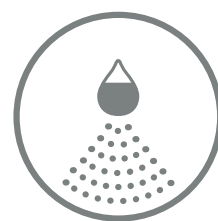
### Detection

Sphero detects the urine concentration, not human presence – reducing the frequency of flush.



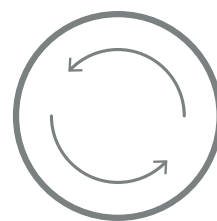
### Rinsing

Sphero only rinses the bowl once the level of urine is high enough, saving water and ensuring cleanliness.



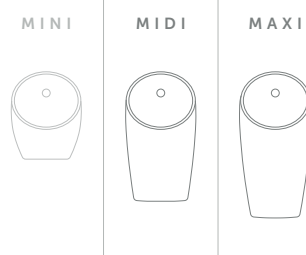
### Stadium mode

When the usage is high, Sphero switches to Stadium mode automatically, increasing flush frequency.



### Timing

When in Hybrid mode, if the urinal is unused for 24 hours, a flush will be triggered automatically, helping to avoid odours and piping issues.







BREEAM rating

BREEAM is an international scheme that assesses the environmental performance of a building. Developed by the Building Research Establishment (BRE), it acts as a third-party certification body, providing trained experts to measure the sustainability of a building, and is now the most widely used method throughout the world. A high BREEAM rating is an assurance of quality and value.

LEED rating

Leadership in Energy and Environmental Design (LEED) is a North American rating system for high environmental quality buildings. Since 1998 it has evolved to become a leading certification scheme for American buildings, as well as a reference point for the rest of the world. A high LEED rating offers huge advantages, such as instant recognition for a building, a healthier indoor space and a higher resale value.

Sphero performance levels for water consumption

Model	Use
Sphero Standard flush	0.85L
Sphero Waterless	0L
Sphero Hybrid flush	Max 1.7L/hr, Min 0.85L/6 hrs

BREEAM performance levels for water consumption of collective buildings

Use	Urinal	Urinals (2 or more)
Baseline	10 lpm	7.5 lpm
1 Credit	8 lpm	6 lpm
2 Credits	4 lpm	3 lpm
3 Credits	2 lpm	1.5 lpm
4 Credits	1 lpm	0.75 lpm
5 Credits	0 lpm	0 lpm

LEED performance levels for water consumption of new buildings

Use	Urinal
LEED 20% requirement	3.79 lpm
LEED 30% (2 points)	3.31 lpm
LEED 35% (3 points)	3.07 lpm
LEED 40% (4 points)	2.84 lpm



### Easier maintenance Hinge bracket

Using the Maxi's hinge bracket, you can pull the urinal away from the wall without detaching it, allowing you to perform maintenance tasks with ease.

### Faster fitting Installation template

Sphero Maxi has an easy-to-follow template to make installation simple and drilling precise. Its rubber seal protects the ceramic and walls, provides a neater aesthetic, and removes the need for a silicone sealant.

## ENGINEERED FOR EASIER MAINTENANCE

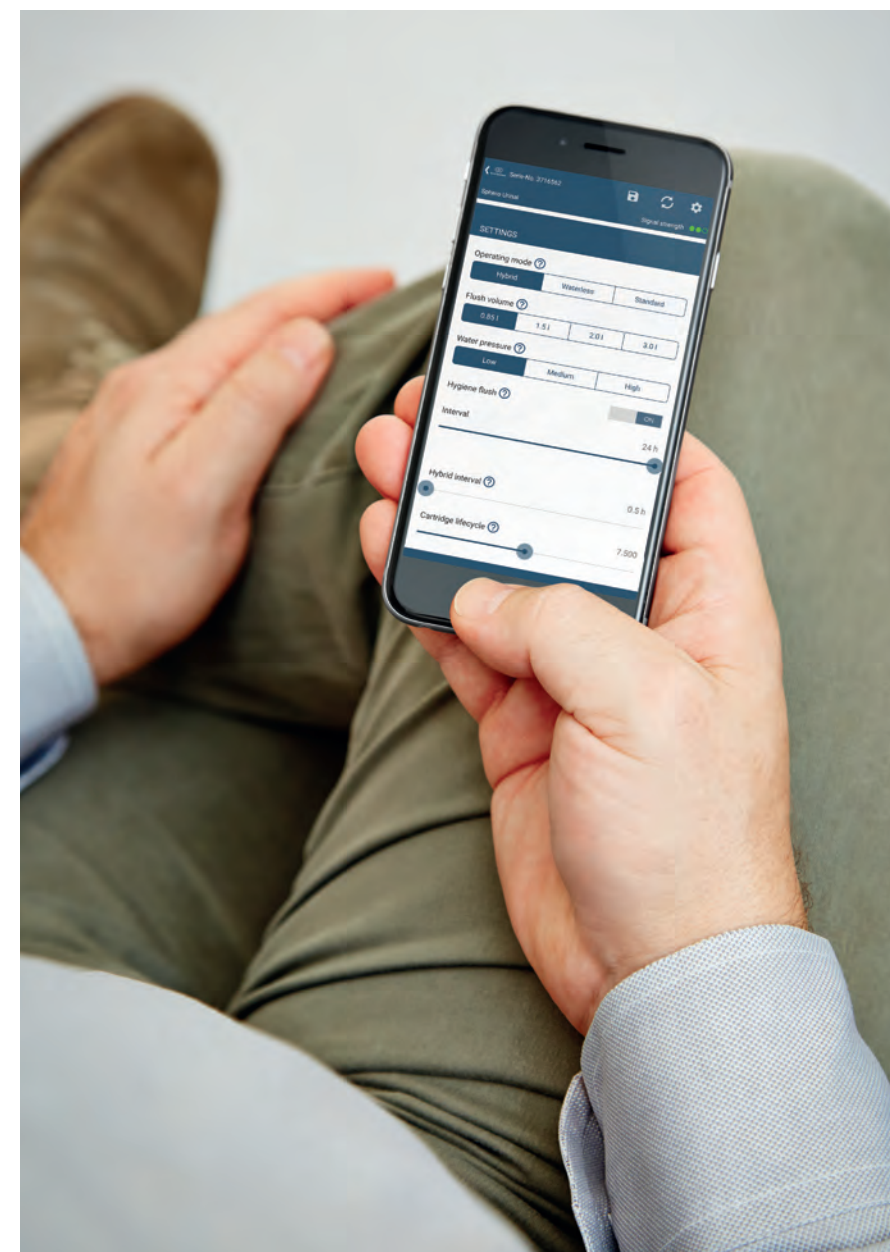
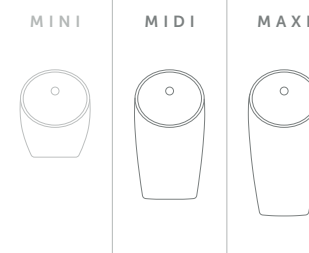
### Mobile app Created for total control

Bluetooth sensors in Sphero Maxi's E-Hybrid model send information on each urinal direct to our easy-to-use app.

Check sensor status, power, flow issues, cartridge life and usage statistics from your phone or tablet.

The app can also apply a profile template to a number of urinals. This allows building owners and facilities managers to apply changes to urinals simultaneously – saving time and resources.

You can also connect to our Gateway for Cloud/WMS – allowing urinals to be monitored continuously and controlled remotely.





# PRODUCT PORTFOLIO

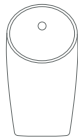


# STANDARD FLUSH



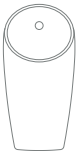
Sphero Mini Back Inlet  
Urinal Exposed Trap BI  
S073401

Sphero Mini Top Inlet  
Urinal Exposed Trap TI  
S073501



Sphero Midi Back Inlet  
Urinal Open Shroud BI  
S073701

Sphero Midi Top Inlet  
Urinal Open Shroud TI  
S073801



Sphero Maxi  
Urinal Closed Shroud  
S074001

## DESIGN & SPECIFICATION

**Modern spherical design**  
Enhancement of aesthetic design for the washroom with a contemporary look and excellent space efficiency.

**Urinal & key components under one SKU**  
Easy to specify and cost effective with additional components designed specifically for different installation types.

**Tamper-proof**  
Fully closed/shrouded design on the Maxi for added security in public washrooms/high-traffic environments. Anti-vandal brackets are available (E202767).

## WATER EFFICIENCY & HYGIENE

**Anti-splash geometry**  
Concave bowl and low outlet position inside the urinal prevents splashback onto the floor and clothing.

**Enhanced water coverage**  
Spreader delivers enhanced hygiene with flush covering majority of bowl.

**Rimless bowls**  
Eliminates hidden surfaces and build-up of stagnant water.

## INSTALLATION

**Back and top inlet options**  
Easy to specify for concealed or exposed installation.

**Easy fix hanger**  
Consistent across range and easy, quick install.

**Rubber seal and installation template<sup>1</sup>**  
Easy installation and precise drilling. Protection of walls and ceramic. Improved aesthetics, no need for silicone sealant.

**Cistern fed**  
Cistern fed installation available, using existing auto cisterns.

## MAINTENANCE



**Top fixed waste**  
Easy and quick access with supplied service key allowing for on-wall maintenance.

**Service and spares**  
Replacement parts available to order.

1. Available as an option/accessory to be purchased in addition to the SKU for Midi and Maxi.


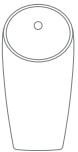


# WATERLESS

	<b>Sphero Mini Waterless</b> Urinal Exposed Trap Waterless S073601		<b>Sphero Midi Waterless</b> Urinal Open Shroud Waterless S073901
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DESIGN & SPECIFICATION	WATER EFFICIENCY & HYGIENE	INSTALLATION	MAINTENANCE
<b>Modern spherical design</b> Enhancement of aesthetic design for the washroom with a contemporary look and excellent space efficiency.	<b>Water saving, reduces odours</b> Waterless option with odour block cartridge. Cartridges only need to be changed every two months (on average).	<b>Easy fix hanger</b> Consistent across range and easy, quick install.	<b>Top fixed waste</b> Easy and quick access with supplied service key allowing for on-wall maintenance.
<b>Urinal &amp; key components under one SKU</b> Easy to specify and cost effective with additional components designed specifically for different installation types.	<b>Anti-splash geometry</b> Concave bowl and low outlet position inside the urinal prevents splashback onto the floor and clothing.		<b>Service and spares</b> Replacement parts available to order.
<b>Tamper-proof</b> Fully closed/shrouded design on the Maxi for added security in public washrooms/high-traffic environments. Anti-vandal brackets are available (E202767).	<b>Rimless bowls</b> Eliminates hidden surfaces and further simplifies cleaning.		


# SMART HYBRID FLUSH


	<b>Sphero Midi Smart Hybrid</b> Urinal Open Shroud – Sensor & Battery Pack S082801		<b>Sphero Maxi Smart E-Hybrid</b> Urinal Closed Shroud – Sensor & Mains Connection S074101  <b>Sphero Maxi Smart Hybrid</b> Urinal Closed Shroud – Sensor & Battery Pack S082901
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DESIGN & SPECIFICATION	WATER EFFICIENCY & HYGIENE	INSTALLATION	MAINTENANCE
<b>Modern spherical design</b> Enhancement of aesthetic design for the washroom with a contemporary look and excellent space efficiency.	<b>Anti-splash geometry</b> Concave bowl and low outlet position inside the urinal prevents splashback onto the floor and clothing.	<b>Integrated components</b> All technical components linked to the ceramic are preinstalled.	<b>Intelligent sensor</b> Detects flow and waste blockage issues and warning light activated. Information then available through for problem solving.
<b>Options to suit the installation type</b> The Maxi urinal has electronic options for mains or battery type installation.	<b>Smart sensor technology<sup>1</sup></b> Smart Hybrid sensor technology detects salinity and urinal use. Single flush activated at default set every 30 mins (at 0.85L per flush). 12 hour hygiene flush if no usage. Maxi model recommended for full control.	<b>Rubber seal and installation template<sup>2</sup></b> Easy installation and precise drilling. Protection of walls and ceramic. Improved aesthetics, no need for silicone sealant.	<b>Easy maintenance hinged bracket (Maxi only)</b> Urinal swings easily off the wall without any need for disconnection for ease of access to traps etc. for improved maintenance regimes.
<b>Tamper-proof</b> Fully closed/shrouded design on the Maxi for added security in public washrooms/high-traffic environments. Anti-vandal brackets are available (E202767).	<b>Smart E-Hybrid sensor technology</b> Building on Hybrid sensor technology, all settings can be changed. Operated via app. Settings can be applied to all urinals connected to app. Default is Hybrid mode. Can be changed to Standard flush or Waterless.	<b>Mobile app<sup>3</sup></b> Easy use app for mobile or tablet allowing facilities managers and building owners to access information about the urinal remotely. Provides diagnostic status and option to change settings if necessary. Preset for easy installation.	<b>LED warning light</b> Flashes 8 times when there is a blockage, 5 times when the battery needs to be replaced or 3 times when the cartridge needs replacing.
	<b>Rimless bowls</b> Eliminates hidden surfaces and build-up of stagnant water.	<b>Cistern fed</b> Cistern fed installation available.	


1. Only for Sphero Midi Smart Hybrid. 2. Available as an option/accessory to be purchased in addition to the SKU for Midi and Maxi. 3. Only for Smart E-Hybrid model.





- Key
- 


Rimless bowl
- 


Battery operated
- 


Smart sensor
- 


Easy maintenance
- 


App compatibility
- 


Easy installation
- 

Mains operated
- 

Hybrid mode
- 

Standard mode
- 

Waterless mode
- 

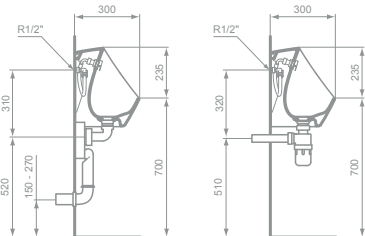
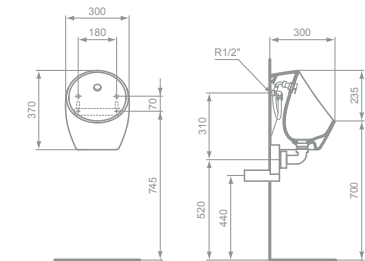
Warning light
- 

24 hour hygiene flush

Sphero Mini Back Inlet  
Urinal Exposed Trap BI  
S073401



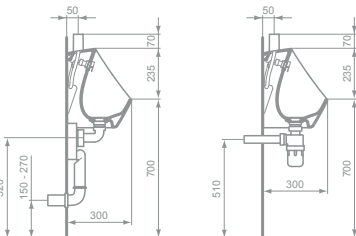
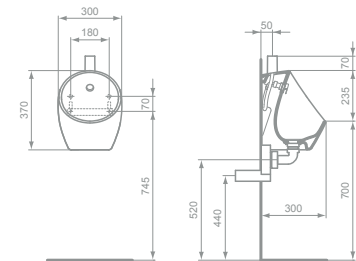
Rimless urinal bowl  
Anti-splash geometry of the inner bowl  
Back inlet connection pack included with flexible and isolating valve  
Branded spreader with check valve and flow regulator  
Easy maintenance top fixed waste  
Easy fixation hanger



Sphero Mini Top Inlet  
Urinal Exposed Trap TI  
S073501



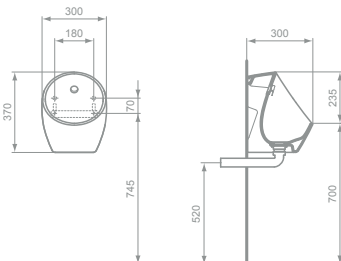
Rimless urinal bowl  
Anti-splash geometry of the inner bowl  
Top inlet connection pack included with flexible and white cap  
Branded spreader with check valve and flow regulator  
Easy maintenance top fixed waste  
Easy fixation hanger



Sphero Mini Waterless  
Urinal Exposed Trap Waterless  
S073601



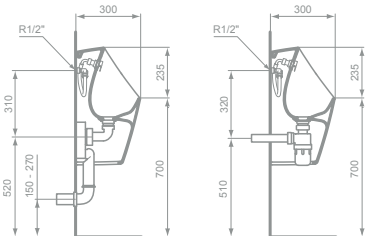
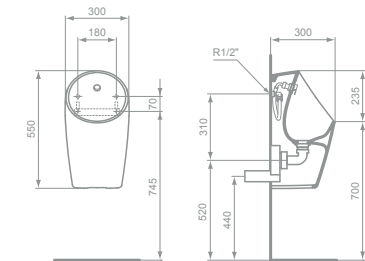
Rimless urinal bowl for Waterless system  
Anti-splash geometry of the inner bowl  
Branded spreader cap  
Easy maintenance top fixed waste  
Waterless grate and odour block cartridge with service key included\*  
Easy fixation hanger



Sphero Midi Back Inlet  
Urinal Open Shroud BI  
S073701



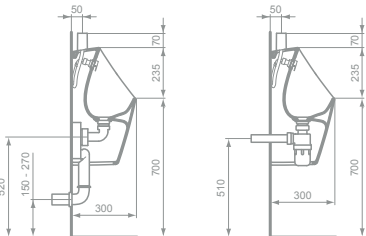
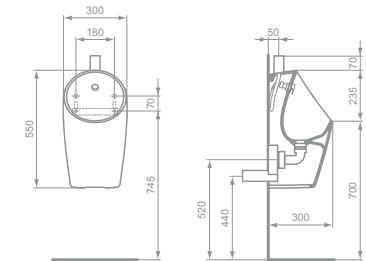
Rimless urinal bowl  
Anti-splash geometry of the inner bowl  
Back inlet connection pack included with flexible and isolating valve  
Branded spreader with check valve and flow regulator  
Easy maintenance top fixed waste and grate cap for reinforced anti-splash and blockage protection  
Easy fixation hanger



Sphero Midi Top Inlet  
Urinal Open Shroud TI  
S073801



Rimless urinal bowl  
Anti-splash geometry of the inner bowl  
Top inlet connection pack included with flexible and white cap  
Branded spreader with check valve and flow regulator  
Easy maintenance top fixed waste and grate cap for reinforced anti-splash and blockage protection  
Easy fixation hanger



\*As soon as the green key ring is empty, the key valve needs to be replaced. This occurs after approximately 7,500 usages. Depending on usage, it must be replaced 2 to 3 times per year. Therefore each valve can save 20,000-40,000 litres of water.







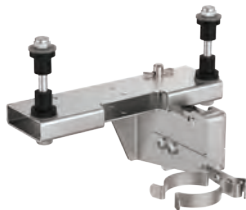
## ACCESSORIES



# ACCESSORIES

MINI	MIDI	MAXI
		
<b>Prewall</b> Inlet connection.	<b>Prewall</b> Inlet connection.	<b>Prewall</b> Inlet connection.
<b>Grate cap</b> Protection for blockage, raised to allow water to flow and collects paper debris.	<b>Grate cap</b> Protection for blockage, raised to allow water to flow and collects paper debris.	<b>Grate cap</b> Protection for blockage, raised to allow water to flow and collects paper debris.
<b>Syphonic outlet pipes</b> Siphon vacuum that transfers the waste water into the waste water pipe; making a valuable contribution to water flushing urinals.	<b>Syphonic outlet pipes</b> Siphon vacuum that transfers the waste water into the waste water pipe; making a valuable contribution to water flushing urinals.	<b>Syphonic outlet pipes</b> Siphon vacuum that transfers the waste water into the waste water pipe; making a valuable contribution to water flushing urinals.
<b>Urinal toggle bolts</b> Anti-vandal feature.	<b>Urinal toggle bolts</b> Anti-vandal feature.	<b>Urinal toggle bolts</b> Anti-vandal feature.
	<b>Top inlet</b> Chrome.	<b>Top inlet</b> Chrome.
	<b>Installation</b> Template, seal and easy maintenance bracket.	<b>Installation</b> Template, seal and easy maintenance bracket.
		<b>Anti-vandal bracket</b> Only available for Hybrid.

Easy Maintenance Bracket  
E202267



Bottle Trap 1½" Plastic Bottle  
S891567



FlexiWaste  
E202367



IS Service Key 2  
E202867



Urinal Install Template & Seal  
E202667



Grate Cap  
E202567



ProSys Universal Urinal Frame  
R016367



ProSys Urinal Frame  
R010367



Compatible with all wall-hung urinals

For built-in installation into masonry and plasterboard constructed walls

Height adjustable legs from 0 to 300 mm

Easy and quick installation with EasyFix™ wall brackets

Adjustable depth 120 > 170

Adjustable height attachment bars

Top recessed fixing panel for built-in or infrared urinal flush control

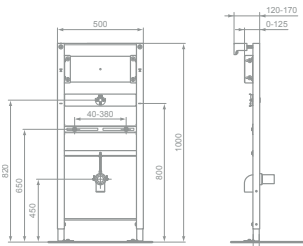
Frame load tested to 100kg

Supplied with all frame fixings

Outlet bend 50/50mm

Outlet bend seal 50mm

1 angled wall connector ½ F x ½ M



Compatible with all wall-hung urinals

For built-in installation into masonry and plasterboard constructed walls

Height adjustable legs from 0 to 300 mm

Easy and quick installation with EasyFix™ wall brackets

Adjustable depth 120 > 170

Adjustable height attachment bars

For exposed manual urinal flush control

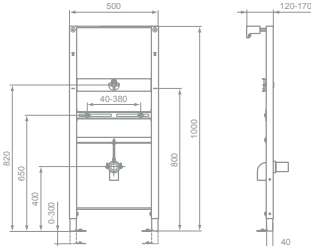
Frame load tested to 100kg

Supplied with all frame fixings

Outlet bend 50/50mm

Outlet bend seal 50mm

1 angled wall connector ½ F x ½ M





Together we positively impact the future of modern living. Together we think bigger. Together we establish the rules for considered design. Together we bring emotion to functional perfection. Together we form enduring partnerships. Together we meet the needs of all generations. Together we shape the future of the category we have defined.

Together for Better.



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**Guarantee**  
**Lifetime on all ceramic products**

Our confidence in the quality and reliability of our product allows us to offer outstanding extended guarantees on all our products – where the product fails within 5/25 years/lifetime we offer a free replacement or replacement part (or nearest equivalent).

Liability is limited to individual products and the guarantee does not cover the consequential loss or damage or installation costs. This guarantee does not affect your statutory rights. Products must be installed, used and cared for in line with our fixing instructions and local water regulations, and room must be adequately ventilated.

Parts (e.g. flushvalves) are guaranteed for five years and will be replaced if found to be faulty. The guarantee does not cover general wear and tear.

Applies to UK and Republic of Ireland only.

Colours printed in this book are as near as possible to the manufactured range of Armitage Shanks products. Our policy is one of continuous improvement and we reserve the right to change specification and design at any time without notice.

All measurements are in millimetres and are approximate.





Ideal Standard