

# INTELLIGENT CARE SMART BY DESIGN





## BE PREPARED TO LISTEN

Healthcare professionals are on the global frontline of combating HCAs. In developing Intelligent Care, we put them at the heart of our development journey.

This feedback was invaluable and enabled us to understand that different healthcare facilities each have different requirements.

We undertook global research to explore the differences and similarities between patient needs, healthcare professionals and infection control users.

We designed Intelligent Care to meet all these individual needs by:

- Ensuring compliance with HTM04-01 where required
- Creating an exterior design that's easy to clean
- Incorporating flexible run time settings to assist the different hand washing protocols for nurses, doctors and surgeons

## BE BRAVE

From 3D printing to the use of robotics in prosthetics – throughout modern healthcare there are countless examples of how advances in design and technology are addressing global challenges, combating disease and transforming patient care.

In healthcare settings major advancements are being undermined by the transmission of preventable infections. Healthcare-associated infections (HCAs) represent a global challenge and claim tens of thousands of lives every year.

So we set ourselves a challenge: to reimagine what a tap could be, and the role it plays in supporting healthcare professionals to minimise HCAs and deliver positive patient outcomes.

This approach has led us to develop our next generation of taps for the healthcare sector – Intelligent Care.

**6 MILLION**

HCAIs IN EUROPE AND USA\*



**136,000**

DEATHS ANNUALLY IN EUROPE AND USA\*

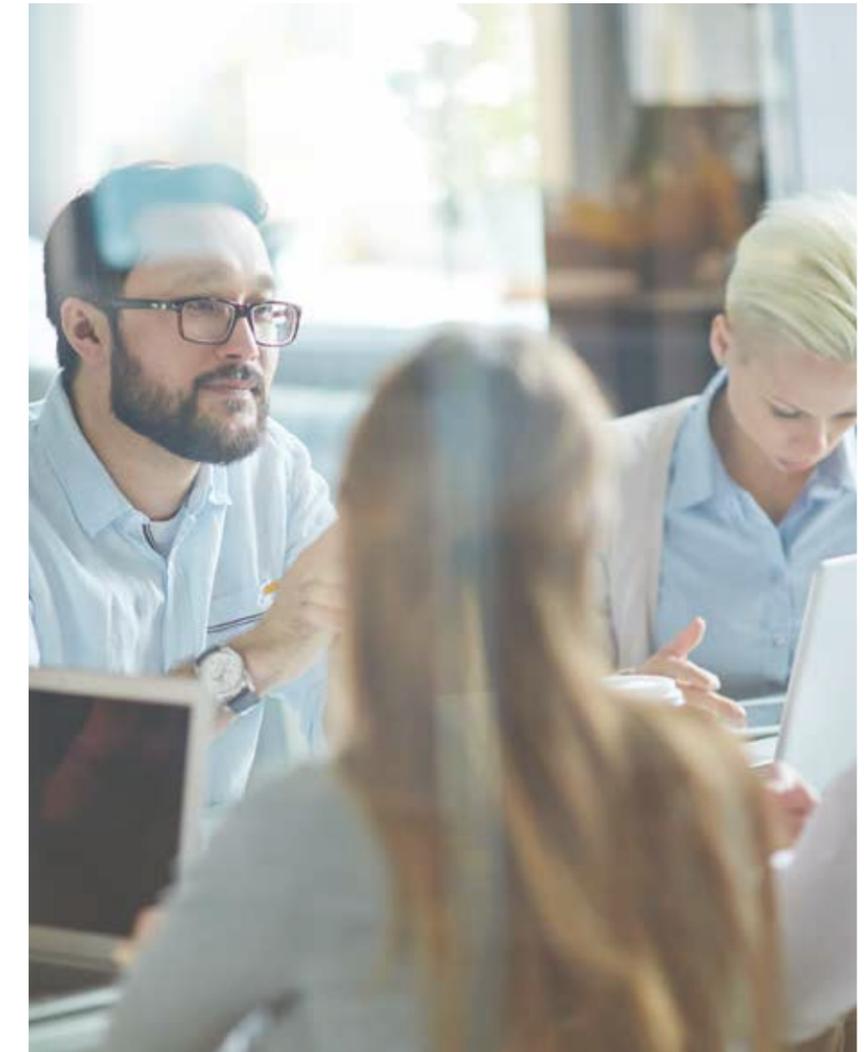
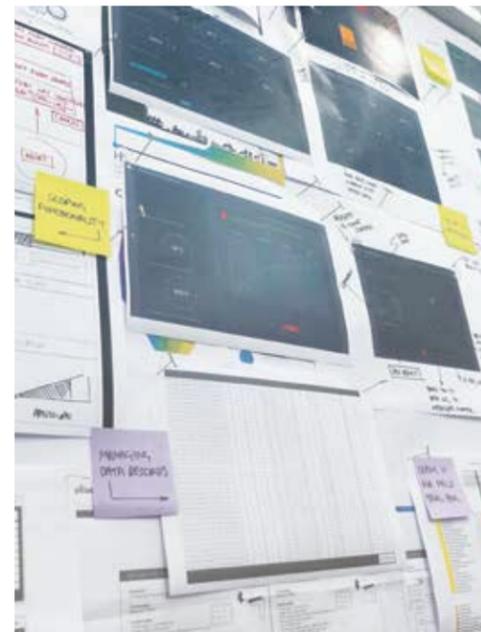


**20-30%**

OF HCAIs CONSIDERED PREVENTABLE\*



“Truly pioneering design will only occur when you are brave enough to step back, challenge everything you know about something and start from the beginning.”



\*Report on the Burden of Endemic Health Care-Associated Infection Worldwide – The World Health Organization, 2011

# CONCEPT TESTING OF INTELLIGENT CARE



## BE INTUITIVE

**Running through the core of Intelligent Care's DNA and design philosophy is 'connectivity' to the world – physically, emotionally and technologically.**

We carefully considered look, feel and movement to create an intuitive design.

The external form evolved into a curved, seamless shape that fits the human hand, making using and cleaning Intelligent Care easy.

The vivid digital controls create a reassuring and simple surface for users to easily understand and interact with.

The chrome outer body has been carefully designed to remain cool to touch regardless of water temperature, for the safety of staff and patients.

Intelligent Care's design outwardly communicates professionalism and reliability – aesthetically reflecting a strong sense of purpose embodied in modern medical equipment.

**"We designed Intelligent Care from scratch with every join, surface and component having been reconsidered. Our goal was simple: make it easy to use, easy to clean and safe."**



## BE UNCONSTRAINED

**While the connectivity of physical design was reimaged, the internal design has been transformed.**

At the heart of Intelligent Care is our pioneering intelligent thermostatic valve that has been engineered to three key principles; reduced size, internal simplicity and improved microbe resistance.

Advancements in design and a reduction in size by over 50 per cent means that technology that was previously remote from the outlet now sits within the tap itself. This has opened a new world of design possibilities.

With the reduction in size came a simplification of internal workings. Surface areas have been minimised, aiding water flow and significantly reducing spaces where water could become trapped and breed bacteria.

Rada's design philosophy centred on meeting five guiding principles – at their heart was solving problems through unconstrained thinking.



Reduce risk and water usage



Shape water and keep it flowing



Reduce size and decrease complexity



Create an intuitive user experience



Use materials intelligently

## BE CONNECTED

**Intelligent Care has been created for the modern world. You can digitally set and log water temperature, flow times and smart duty flushing, all remotely.**

This means it's easier to carry out essential hygiene measures, protect users from scalding, check the health of taps and log compliance data. It provides peace of mind that activities are captured with precision.

All this functionality is controlled through the Rada App that connects to Intelligent Care with Bluetooth.

Intelligent Care can also securely connect to an existing Building Management System or to a cloud-based service where staff already monitor and control their facility's activity in a single place.

Whatever your networking preference, Intelligent Care is the ideal product for the digital age.



## BE METICULOUS

**The use of advanced digital analysis tools enabled us to carry out strength and reliability testing ahead of the manufacturing process.**

Intelligent Care went through our automated testing facility with each product passing endurance tests set at more than double the WRAS standard of 200,000 cycles.

Our advanced assembly line manufactures incredibly high tolerance products with precision and quality.

Our work has culminated in Intelligent Care – a range that meets your needs, our design principles and redefines the impact of our devotion to reimagining safety in the healthcare environment.

[“The strength, reliability and professionalism communicated through Intelligent Care’s physical form ran through the core of the entire design and manufacturing process.”](#)

# THE RADA WAY

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**Rada has been at the forefront of designing and manufacturing water controls and washroom products across a range of sectors for the commercial buildings market for more than 80 years. It believes people should use taps, showers and water outlets designed to keep users safe, prevent waterborne infections and conserve resources.**

It's uncompromising in its approach to reimagining the way its products are designed, made, installed and serviced.

## **Rada – A Kohler Company**

Kohler brings together a number of market leading bathroom and shower brands including Rada, Kohler UK and Mira Showers. If you'd like to know more, please visit [www.kohlermira.co.uk](http://www.kohlermira.co.uk)

## **Rada – A Kohler Company**

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