

OpenBlue Pioneers

Chase Center

Creating smart, safe, healthy and connected fan experiences at this Bay Area beacon of pride



Chase Center shines bright on the shores of San Francisco's Mission Bay neighborhood. A state-of-the-art sports and entertainment center and the city's only arena with more than 18,000 seats, it's home to the now seven times and current National Basketball Association (NBA) champions, the Golden State Warriors.

Chase Center isn't just an arena. It's a destination – an iconic gathering place where extraordinary experiences and unforgettable memories are made.

Surrounding Chase Center is Thrive City, the dynamic 11-acre, mixed-use, waterfront district created to promote health and wellness for community members in the greater Bay Area. The destination offers more than 3.2 acres of plaza and public areas, an abundance of dining and retail space, as well as entertainment hotspots, residences and gathering places. Abuzz with activity, Thrive City, Chase Center and its surroundings are much more than a scene; they're a beacon of great art, culture, sports and entertainment for the Bay Area community.

Designing with meaning

Constructing a smart building that meets energy, technology, user experience and operational objectives depends on early collaboration. The owner, design and construction teams need to come together to share informed, data-driven decisions about connectivity and interoperability. Smart connectivity is critical

for connecting technologies within and across buildings, creating systems that optimize building operations, reduce resource use, produce meaningful insights and increase productivity.

The process of translating raw data into useful insights and actions is key to delivering smarter capabilities for buildings, and Chase Center holds that principle at its core.

Intelligent intention

As a proud partner of Chase Center, Johnson Controls was involved at its earliest design stage, working closely with the Warriors and their design and construction teams to create this groundbreaking archetype for sports and entertainment venues. To achieve this, Chase Center needed to be:

- Easily accessible
- State-of-the-art
- Digitally fit
- Second to none

And that's exactly what it is.

With the fan experience front and center, producing a highly intelligent arena was essential to:

- Providing an optimal environment for the health and safety of guests
- Maintaining energy-efficiency goals
- Moving with technological innovation
- Adjusting with ease to changing requirements

Beginning by furnishing, installing, and integrating future-forward, centralized building automation and security systems, Chase Center faced the COVID-19 pandemic head-on shortly after opening. Johnson Controls helped leaders navigate the crisis and further prepare the building's resiliency for the safe return of fans.

Return to live events at Chase Center

After the Warriors played a full season at Chase Center without fans in the stands, the time finally came for their safe return. Committed to protecting the health and well-being of spectators, visitors, players and employees, Johnson Controls worked with Chase Center to analyze the current systems and equipment, make adjustments, implement new healthy building technologies and apply further safety measures.

Extending its existing infection mitigation technology, such as frictionless access control powered by facial recognition and executive and employee entrance turnstiles with QR and barcode technology, are these recently implemented safeguards:

- Upgrades to HVAC systems, surpassing CDC COVID-19 guidelines
 - Enhanced ventilation systems to boost fresh air intake
 - Installation of industrial air purifiers
- Social distance monitoring via security center video
- COVID-19 rapid tests
- Onsite technicians for controls and security systems, augmenting and training staff

As a result of these efforts, the Warriors and Chase Center were able to safely welcome back fans.



The systems behind it all

Johnson Controls healthy building technologies are fundamental to enhancing healthy people, places and the planet. Providing only the best for its avid fans, Chase Center optimizes the digital capabilities of its equipment, systems and connected technologies to create a holistic, technologically intuitive, secure environment of comfort and enjoyment.

Centralizing integrated building management with Metasys®

Metasys® building automation system is Chase Center's command central, seamlessly integrating, monitoring and controlling its most vital systems and equipment from a single platform.

Smoke control, electrical power monitoring and critical power, water, fuel and heat control equipment communicate data in real time to this industry-leading management system. Chase Center operators have critical intel at their fingertips that powers them to make smart building decisions to enhance fan health, comfort and safety, as well as reduce energy and the arena's carbon footprint.

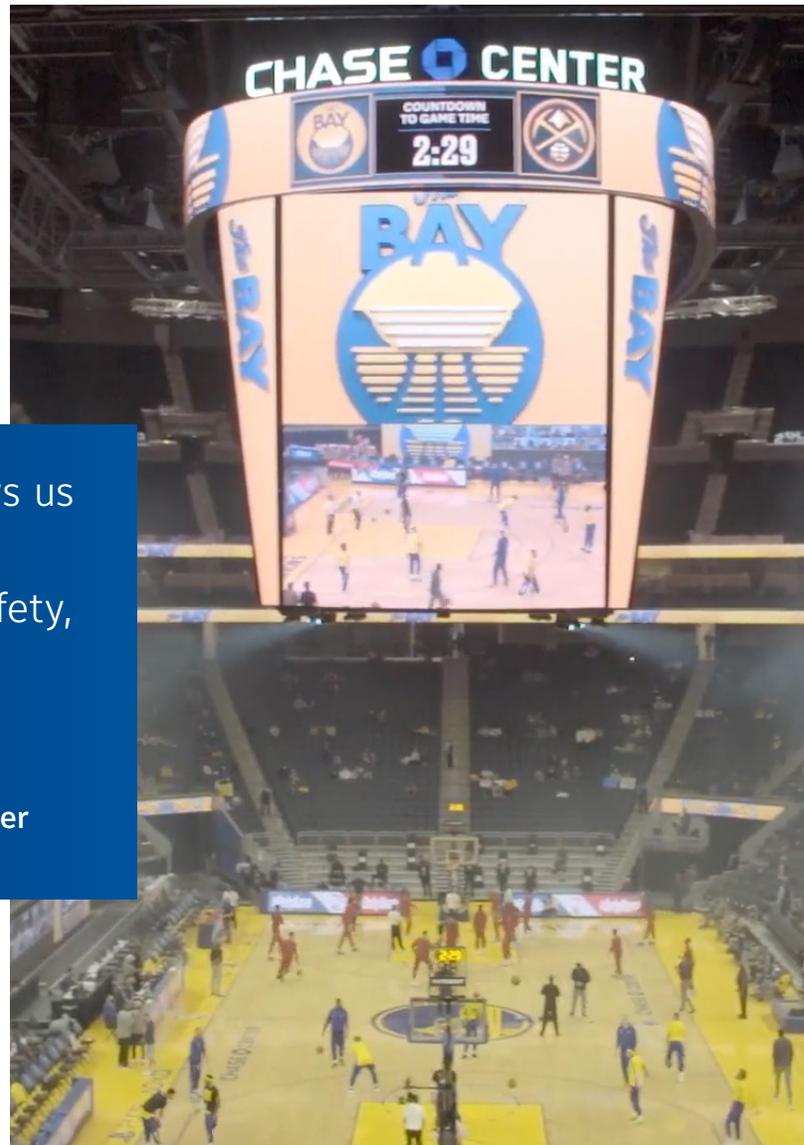
"Having one intelligent platform allows us to make smarter building decisions to enhance fans' health, comfort and safety, as well as reducing our energy usage and the arena's carbon footprint."

Matt Balk, VP, Arena Operations at Chase Center

Security center video and touchless access controls take command

With the volume of guests visiting Chase Center, world-class video security and access control are vital first lines of defense in securing the property and people, inside and out.

Security center video and touchless access controls deliver Chase Center unified security through one interface that evolves with its changing needs, as proven during the pandemic. Its integrated command and control, audiovisual and extensive security ecosystem throughout the arena allows anti-fraud, touchless entry, as well as social distance monitoring.



Keeping players safe with frictionless access control

Furthering Chase Center's security measures is its frictionless access control for players.

Using facial recognition enabled by artificial intelligence, deep learning algorithms and robust cybersecurity protocols, access control management software is combined with leading-edge facial recognition cameras to recognize multiple people as they approach an entrance simultaneously.

Unobtrusive, it provides a stress-free and hygienic way for players to move about the premises safely and fluidly.

Champions achieving sustainability gold

Chase Center is an example of the best in sustainable thinking – a value it shares with Johnson Controls. The Warriors were the first NBA team to sign the UN Sports for Climate Action Initiative to support global science-based targets.

In 2020, Chase Center achieved LEED Gold certification by the Green Building Council for building design and new construction. Demonstrating its commitment to the highest levels of sustainability practices, it's one of only 10 NBA arenas that have achieved a LEED certification, with six having reached Gold or higher.

In the same year, Chase Center achieved the Global Biorisk Advisory Council's (GBAC) STAR facility accreditation for adhering to the most stringent protocols for cleaning, disinfection and infectious disease prevention, making it the only major sports venue in the US to receive both certifications.

Chase Center went on to become a Certified Green Business of the City and County of San Francisco in 2021. The certification is part of the California Green Business Program, a network of local programs operated by counties and cities throughout California to help local businesses conserve energy and water, minimize waste, prevent pollution and shrink their overall carbon footprint.

By becoming a Certified Green Business, Chase Center is committed to a long-term environmental plan through the implementation of sustainable business practices and procedures that contribute to a clean and healthy environment.

Pioneering the fan experience

Organizations like the Golden State Warriors are shaping tomorrow's world. Their pioneering vision for Chase Center sets a precedent for other sports and entertainment venues worldwide, merging community pride with immersive experiences rooted in sustainability. Here, leading-edge connected technologies, systems and equipment converge with Johnson Controls healthy buildings solutions to amplify energy efficiency, safety, security and comfort. Whether cheering on the Warriors, taking in a concert or admiring its maritime-inspired design, guests of Chase Center encounter firsthand how smart buildings truly enhance lives through innovation and creativity.

Visit www.johnsoncontrols.com or follow [@johnsoncontrols](https://twitter.com/johnsoncontrols) on Twitter to learn more.

Find the next generation of smart building technology at www.johnsoncontrols.com/digital-solutions

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About OpenBlue

OpenBlue is a complete suite of connected solutions that serves industries from workplaces to schools, hospitals to campuses, and beyond. This platform includes tailored, AI-infused service solutions such as remote diagnostics, predictive maintenance, compliance monitoring, advanced risk assessments, and more. A dynamic new space from Johnson Controls, OpenBlue is how buildings come alive.



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