

CASE STUDY 6

THEATER

Meeting the highest comfort requirements of the public.



Project Period
September 2019

Installed Units
- Universal Smart X EDGE – 5 modules
- Universal Smart X (USX) – 2 modules

PROBLEM STATEMENT

The theater had to deal with an inefficient, 22-year-old, unrepairable air-cooled chiller. It also needed a flexible system with precise control to provide a comfortable environment for its

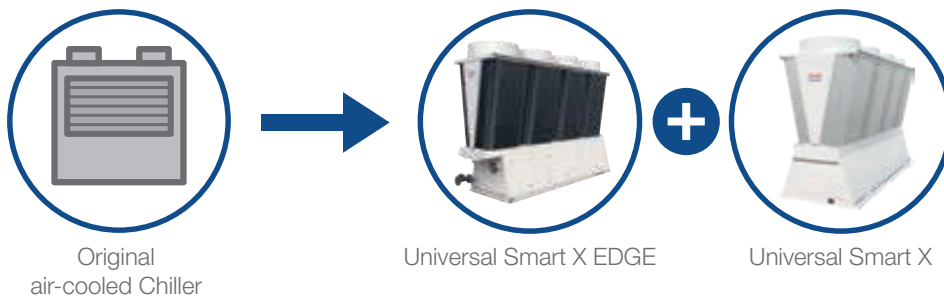
patrons. The solution needed to be adaptable, energy efficient and operate at a lower cost of ownership.

SOLUTION

To meet the comfort demand and operational requirements, the theater chose the TOSHIBA „Universal Smart X“ for its high efficiency, precise control and high flexibility.

- The inverter control ensures highly efficient operation.

- The mixed heating / cooling system provides the flexible operation to meet changing seasonal requirements.
- Backup operation enables risk diversification.



Universal Smart X EDGE



Universal Smart X
(with noise protection hood)



Theater interior



Theater hall

ADVANTAGES

New system for stable operation.

1. Energy consumption and maintenance costs related to HVAC / operating costs have been reduced.

2. The system provided visitor comfort by diversification of the risk of failure.

3. The modular design allowed for flexible installation..

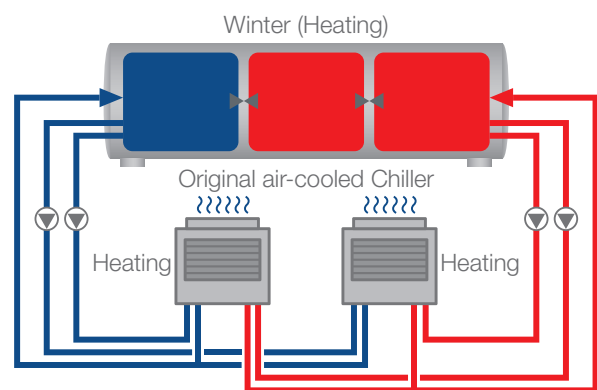
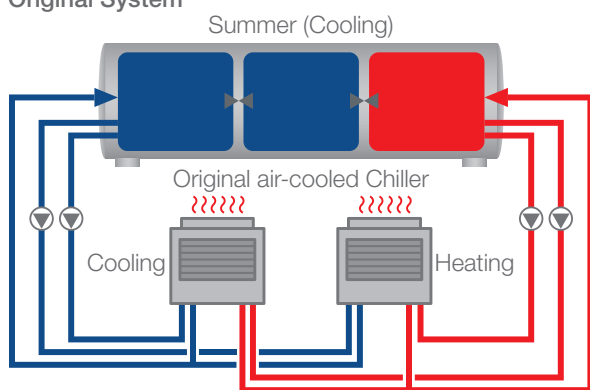
CUSTOMER'S OPINION

The project schedule was very challenging, yet TOSHIBA executed the installation without disruption to visitors and staff.

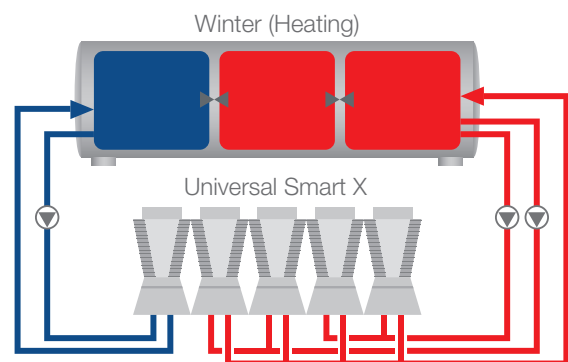
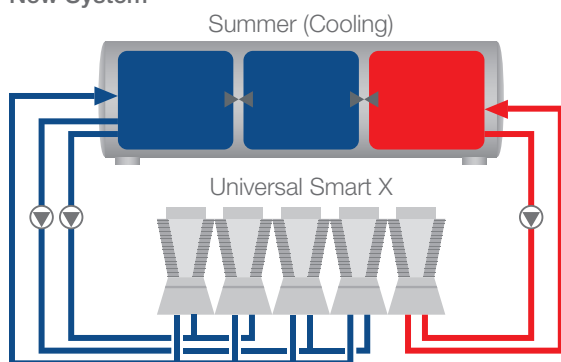
The new system also delivers great energy savings while ensuring operational efficiency and stability.

System Overview

Original System



New System



Cooling —

Heating —