

Garsington Studios

CIAT SUPPLIES ENERGY-EFFICIENT AIR HANDLING UNITS FOR GARSINGTON STUDIOS



KEY CHALLENGE

• Site Conditions

The greenfield site and inclement weather created challenging conditions impacting material delivery and on-site work.

• Acoustic and Temperature Requirements

Precise acoustic NR15 (Noise Rating) ratings and controlled temperatures were required throughout the opera house.

• Price Volatility

The project's long-term duration risked significant material and equipment price increases.

Project Scope & Brief

Garsington Studios, a new, state-of-the-art facility built on a greenfield site at Garsington Opera in the scenic Chiltern Hills, has committed to sustainability with all studio services run on renewable energy sources.

The scope of the project for CIAT involved the supply and delivery of three CLIMACIAT® AIRACCESS Air Handling Units (AHUs). The brief required a ventilation solution incorporating heat recovery and precise temperature control for the entire opera house environment.

Solution

The standard specification CIAT AHUs supplied have intelligent features and effectively integrate with the building management system (BMS). They provided essential features for the project's success, including built-in noise attenuation, a thermal wheel for heat recovery, and a free cooling mode.

- **Mitigating Site Challenges:** Strategic planning and coordination reduced the impact of weather and site conditions on the timeline.
- **Acoustic Control:** Acoustically lined plenums and ducting ensured compliance with stringent acoustic standards and minimised ventilation noise.
- **Price Stability:** CIAT's phased project management helped maintain cost certainty by mitigating potential price increases.

Result

"CIAT's AHUs were selected for their competitive pricing, fast lead times, and advanced features."

Chris Harrington,
Project Manager, Arcade UK.



CIAT's AHU installed and integrated with Garsington Studios' Building Management System

The Garsington Studios project demonstrates CIAT's commitment to providing innovative and sustainable HVAC solutions that meet the unique challenges of complex construction projects.

This project was CIAT's debut in constructing an artistic performance space, highlighting its versatility in providing tailored HVAC solutions.

Working closely with mechanical design and build contractors, Arcade UK, this project was completed in May 2024, and marks a significant milestone in sustainable construction and offers an exceptional venue for opera enthusiasts.

By delivering high-quality AHUs with advanced features on time and within budget, CIAT played a vital role in completing this prestigious project.