

Heating Solutions Ensure A New Office Build Completes on Time

During wet weather, RVT provides heating and monitoring equipment to keep construction works on schedule.

June 2020



Client:

Bellway

Location:

Merstham, Surrey

Featured Product Range:



Climex® Hazard Control Solutions

Introduction

During Spring 2021, the well-known property developer Bellway Homes engaged in an internal project, carrying out construction works for a new office block at their Merstham base in Surrey. However, the project was threatened by wet weather and damp air in May, when rainfall totals for the month reached 168% of the long-term average in south-east England

The Challenge

As the new build was not yet watertight, a heating and drying solution was urgently required to keep the project on track and protect the work already completed. Lack of climate control equipment can lead to numerous knock-on effects, such as delays to floor laying and plastering. Therefore, creating dry heat and an ambient temperature was a top priority.

Key Case Study Facts:

- Bellway Homes, a company employing nearly 3,000 people, were building a new Merstham office in Surrey
- Whilst construction was underway, adverse weather conditions threatened to delay the project
- In order for the wet trades stage to continue, Bellway required an effective heating and drying solution to keep the project on track
- RVT installed Climex 110kw Indirect Oil-Fired Heater and Climex Air Distribution Kits to ensure that warm air was evenly distributed through the damp areas
- The Monitex TRH monitor provided continuous real-time updates to ensure the drying-out programme remained effective for the duration of the project

Bellway approached RVT Group for a flexible and effective heating solution, which would allow works to progress without interruption whilst also protecting workers from the adverse weather conditions.

The Solution

RVT recommended the Climex 110kw Indirect Oil-Fired Heater to create a flow of dry heat via flexible ducting throughout the building core. This was paired with Climex Air Distribution Kits to ensure that warm air was evenly distributed through the damp areas and that the main fabric of the new build dried out. This solution provided a constant dry heat and put the build under positive pressure, purging the moisture from the air and preventing any further damp build up. The temperature and humidity were tracked using our Monitex TRH monitor. This unit monitored the temperature and humidity levels in continuous real time and provided those on site with measurements every five minutes ensuring the drying-out programme remained effective for the duration of the project.



“The continuous rain had been a real set back on this project, and in order to keep on track, we needed to dry-out the building in the most effective way. We were very pleased with the heating solution provided by RVT Group and the TRH monitor enabled us to keep a close eye on the temperature and humidity levels.”

-Project Manager, Bellway Homes

Heating Solutions:



Climex Indirect Oil-Fired Heater 110M features an adjustable thermostat. This duct-able mobile unit; makes it easy to re-position and redirect heat as work progresses. Furthermore, this unit can be run on HVO fuel.

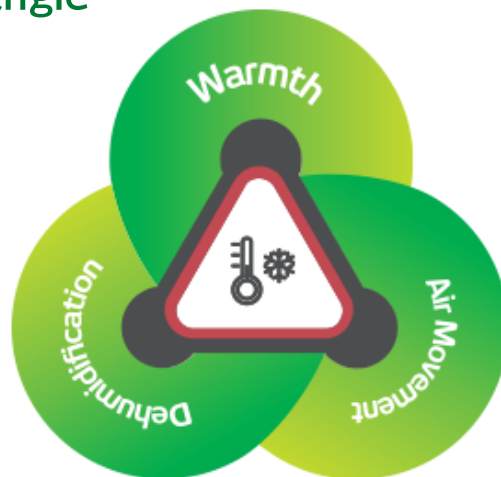


Climex Air Distribution Kit 300 help draw water to the surface for evaporation. This kit can be connected to up to 30m of ducting ensuring consistent heat coverage is maintained and 'dead areas' are evenly dried out.



Monitex Temperature and Relative Humidity (TRH) stores data on a cloud-based platform. Using this data, you can decide the right time to install temporary heating solutions, or whether to adjust the thermostat if you already have a heater on site.

Keep Your Project on Track with the Effective Drying Triangle



Warmth – Heat raises the room temperature and so lowers the relative humidity of the air, allowing the air to absorb more water from surrounding surfaces.

Air Movement – Air movement across a substrate draws the water to the surface, where it evaporates.

Dehumidification – Dehumidification extracts water from the air, to be transferred away from the work area.

Protecting the Health of Your Workforce



Working in damp conditions can leave workers more susceptible to colds and flu, sore throats, norovirus and asthma. RVT assists protecting workers by providing effective heating solutions to maintain an ambient temperature on site.